

## SAFETY DATA SHEET

# Potassium Hydrogen Phthalate - Acidified

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

**Trade name or designation of the mixture** Potassium Hydrogen Phthalate - Acidified

#### Product application

This SDS provides health and safety information for any acidified KHP component of the following vials or kits.

GE Analytical Instruments part number	Product name
---------------------------------------	--------------

STD 74025, STD 74050, STD 74075, STD 74100, STD 74150	-
---	---

GE Analytical Instruments kit number
--------------------------------------

STD 74401, 74404, 74405, 74406, 74409, 74501, 74504, 74505, 74506, 74509, 74512, 74513, 74514, 74515, 74516, 74522, 74524, 74526, 74612, 74613, 74614, 74615, 74616, 74622, 74624, 74626
--

**Date of first issue** 02/02/2012

**Version number** 2.1

**Revision date** 26/05/2016

**Supersedes date** 20/11/2014

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Identified uses** Calibration Standard

**Uses advised against** None known.

#### 1.3. Details of the supplier of the safety data sheet

GE Analytical Instruments Inc  
6060 Spine Road  
Boulder, CO 80301  
T 303-444-2009  
e-mail : emea.productstewardship@ge.com

GE Water & Process Technologies Hungary Kft.  
2800 Tatabánya, Vigadó utca 2011 hrsz.  
Hungary  
Tel: +36 34 512-520  
e-mail : oro.ehs@ge.com

#### 1.4. Emergency telephone number

1-800-535-5053 INFOTRAC (North America)

Outside of N.A., call collect: 1-352-323-3500

GE (800) 877-1940

National Poisons Information Centre

NHS Direct on 0845 46 47

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

#### 2.2. Label elements

##### Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** Phosphoric acid, Potassium hydrogen phthalate, Water

**Hazard pictograms** None.

**Signal word** None.

**Hazard statements** The product does not need to be labelled in accordance with EC directives or respective national laws.

##### Precautionary statements

**Prevention** Not available.

## SAFETY DATA SHEET

# Potassium Hydrogen Phthalate - Acidified

Response	Not available.
Storage	Not available.
Disposal	Not available.
Supplemental label information	None.
2.3. Other hazards	None known.

### SECTION 3: Composition/information on ingredients

#### Mixtures

Chemical description Potassium Hydrogen Phthalate Solution

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Water	> 99,99	7732-18-5 231-791-2	-	-	
<b>Classification:</b>	-				
Phosphoric acid	< 0,01	7664-38-2 231-633-2	01-2119485924-24	015-011-00-6	#
<b>Classification:</b>	Met. Corr. 1;H290, Skin Corr. 1B;H314				B
Potassium hydrogen phthalate	< 0,00032	877-24-7 212-889-4	-	-	
<b>Classification:</b>	-				

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

Inhalation	Move to fresh air.
Skin contact	Wash off with soap and water.
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth.

4.2. Most important symptoms and effects, both acute and delayed Not applicable.

4.3. Indication of any immediate medical attention and special treatment needed Not available.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	Non flammable.
Unsuitable extinguishing media	None.

5.2. Special hazards arising from the substance or mixture None known.

#### 5.3. Advice for firefighters

Special protective equipment for firefighters	No special protective equipment required.
Special fire fighting procedures	Not applicable.

## SAFETY DATA SHEET

# Potassium Hydrogen Phthalate - Acidified

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** No special protective equipment required.

**For emergency responders** Use personal protection recommended in Section 8 of the SDS.

**6.2. Environmental precautions** Prevent from entering sewers or the immediate environment.

**6.3. Methods and material for containment and cleaning up** Spills of the product are very slippery. Contain and recover by physical means. Water contaminated with this product may be sent to a sanitary sewer treatment facility, or a permitted waste treatment facility, in accordance with any local agreements. Remove small spills with plenty of water.

**6.4. Reference to other sections** Please refer also to section no. 8 'Exposure controls' for further information.

### SECTION 7: Handling and storage

**7.1. Precautions for safe handling** Handle in accordance with good industrial hygiene and safety procedures.

**7.2. Conditions for safe storage, including any incompatibilities** Store in a closed container away from incompatible materials. Reasonable and safe chemical storage.

**7.3. Specific end use(s)** Only for professional and industrial users

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limits

##### UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Phosphoric acid (CAS 7664-38-2)	STEL	2 mg/m <sup>3</sup>
	TWA	1 mg/m <sup>3</sup>

##### EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value
Phosphoric acid (CAS 7664-38-2)	STEL	2 mg/m <sup>3</sup>
	TWA	1 mg/m <sup>3</sup>

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Not available.

##### Derived no-effect level (DNEL)

Components	Type	Route	Value	Form
Phosphoric acid (CAS 7664-38-2)	Workers	Inhalation	2,92 mg/m <sup>3</sup>	Long Term - Local Effects
		Inhalation	1 mg/m <sup>3</sup>	Long term - Systemic effects

**Predicted no effect concentrations (PNECs)** Not available.

#### 8.2. Exposure controls

**Appropriate engineering controls** Adequate ventilation.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Safety goggles.  
 CEN : EN 166

##### Skin protection

- **Hand protection** None required.

- **Other** No special protective equipment required.

**Respiratory protection** Not required.

## SAFETY DATA SHEET

# Potassium Hydrogen Phthalate - Acidified

Thermal hazards	Not available.
Environmental exposure controls	Not applicable.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

##### Appearance

Colour	Colorless
Physical state	Liquid
Odour	None
Odour threshold	Not available.
pH (concentrated product)	3
Melting point/freezing point	0 °C
Initial boiling point and boiling range	100 °C @ 1 Torr
Flash point	> 100 °C Pensky Martens (CC)
Evaporation rate	1 (Water = 1)
Flammability (solid, gas)	Not applicable.

##### Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	18 mm Hg at 21°C
Vapour density	1 (Air = 1)
Relative density	1
Solubility	
Solubility (water)	100 %
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not available.
Viscosity	Not applicable.
Explosive properties	Not available.
Oxidising properties	Not available.

#### 9.2. Other information

VOC (Weight %)	None
----------------	------

### SECTION 10: Stability and reactivity

10.1. Reactivity	Not available.
10.2. Chemical stability	Material is stable under normal conditions.
10.3. Possibility of hazardous reactions	Not applicable.
10.4. Conditions to avoid	No special requirement.
10.5. Incompatible materials	None known.
10.6. Hazardous decomposition products	None known.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

## SAFETY DATA SHEET

# Potassium Hydrogen Phthalate - Acidified

Product	Test results
Potassium Hydrogen Phthalate - Acidified (Mixture)	Acute Dermal LD50 Rabbit: > 5000 mg/kg (Calculated according to GHS additivity formula) Acute Oral LD50 Rat: > 5000 mg/kg (Calculated according to GHS additivity formula)

Components	Test results
Phosphoric acid (7664-38-2)	Acute Dermal LD50 Rabbit: 2740 mg/kg

Acute toxicity	Not classified.
Skin corrosion/irritation	Not classified.
Serious eye damage/irritation	Direct contact with eyes may cause temporary irritation.
Respiratory or skin sensitisation	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Specific target organ toxicity - single exposure	Not classified.
Carcinogenicity	Not classified.
Germ cell mutagenicity	Not classified.
Reproductive toxicity	Not classified.

### Information on likely routes of exposure

Ingestion	May cause irritation of the gastrointestinal tract.
Inhalation	Prolonged or excessive inhalation may cause respiratory tract irritation.
Skin contact	May be irritating to the skin.
Eye contact	Direct contact with eyes may cause temporary irritation.

Symptoms	Not available.
Aspiration hazard	Not classified.
Mixture versus substance information	Not available.
Other information	Not available.

## SECTION 12: Ecological information

12.1. Toxicity	No data available
12.2. Persistence and degradability	No data available
12.3. Bioaccumulative potential	Not available.
Partition coefficient n-octanol/water (log Kow)	Not available.
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	Not available.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12.6. Other adverse effects	Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

## SAFETY DATA SHEET

# Potassium Hydrogen Phthalate - Acidified

<b>Contaminated packaging</b>	According to Controlled Waste Regulations.  EWC ( European Waste Code ) recommendation : 15 01 02 15 Waste packaging; absorbents, wiping cloths, filter materials and protective clothing not otherwise specified. 15 01 Packaging (including separately collected municipal packaging waste). 15 01 02 Plastic packaging. Depending on the origin and state of the waste, other EWC numbers may be applicable too.
<b>Disposal methods/information</b>	According to Controlled Waste Regulations.  EWC ( European Waste Code ) recommendation : 16 03 04 16 Wastes not otherwise specified in the list. 16 03 Off-specification batches and unused products. 16 03 04 Inorganic wastes Depending on the origin and state of the waste, other EWC numbers may be applicable too.

### SECTION 14: Transport information

#### ADR

Not regulated as dangerous goods.

#### RID

Not regulated as dangerous goods.

#### ADN

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

### SECTION 15: Regulatory information

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

##### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

##### Authorisations

**Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation**

Not listed.

##### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

## SAFETY DATA SHEET

# Potassium Hydrogen Phthalate - Acidified

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work**  
Not listed.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding**  
Not regulated.

### Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances**  
Not listed.

**Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**  
Phosphoric acid (CAS 7664-38-2)

**Directive 94/33/EC on the protection of young people at work**  
Phosphoric acid (CAS 7664-38-2)

**National regulations** Not available.

**15.2. Chemical safety assessment** Not available.

### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## SECTION 16: Other information

### List of abbreviations

COD: Chemical Oxygen Demand  
EC-No: European Commission Number  
IATA: International Air Transport Association  
CAS: Chemical Abstract Service.  
CLP: Classification, Labeling and Packaging REGULATION (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures.  
CEN: European Committee for Standardization (Comité Européen de Normalisation).  
TWA: Time Weighted Average.  
STEL: Short-term Exposure Limit.  
LD50: Lethal Dose 50%.  
LC50: Lethal Concentration 50%.  
EC50: Effective Concentration 50%.  
NOEL: No observed effect level.  
BOD: Biochemical oxygen demand.  
TOC: Total Organic Carbon.  
ADR: European agreement concerning the international carriage of dangerous goods by road (Accord européen relatif transport des marchandises dangereuses par route).  
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures).  
IMDG Code: International Maritime Dangerous Goods Code.  
RID: Regulations concerning the international carriage of dangerous goods by rail (Règlement International concernant le transport de marchandises dangereuses par chemin de fer).  
Safety data sheets of raw materials.

### References

#### Information on evaluation method leading to the classification of mixture

The physical, health and environmental hazards of this mixture are assessed by applying the classification criteria for each hazard class or differentiation in Parts 2 to 5 of Annex I to Regulation (EC) No 1272/2008 (CLP).

#### Full text of any H-statements not written out in full under Sections 2 to 15

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.

### Revision information

This document has undergone significant changes and should be reviewed in its entirety.

## SAFETY DATA SHEET

# Potassium Hydrogen Phthalate - Acidified

---

<b>Training information</b>	Provide training on safe handling while considering the type of application and exposure scenarios.
<b>Based on EC Directive / Regulations</b>	(EC) No 1907/2006 (REACH) (EU) 2015/830 (EC) No 1272/2008 (EU) No 1357/2014
<b>Further information</b>	Correction in Section: 1,2,3,4,11,15,16