



Be Right™

# SAFETY DATA SHEET

Issue Date 11-Dec-2017

Revision Date 11-Dec-2017

Version 1.4

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## 1. IDENTIFICATION

### Product identifier

**Product Name** Potassium Acid Phthalate

### Other means of identification

**Product Code(s)** 31534

**Safety data sheet number** M00318

### Recommended use of the chemical and restrictions on use

**Recommended Use** Laboratory Use.

**Uses advised against** None.

**Restrictions on use** None.

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

#### **Manufacturer Address**

Hach Company P.O.Box 389 Loveland,  
CO 80539 USA +1(970) 669-3050

#### **Emergency telephone number**

+1(303) 623-5716 - 24 Hour Service +1(515)232-2533 - 8am - 4pm CST

## 2. HAZARDS IDENTIFICATION

### Classification

#### **Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Dermal	Category 4
Serious eye damage/eye irritation	Category 2A

#### **Hazards not otherwise classified (HNOC)**

Not applicable

#### **Label elements**

**Signal word** - Warning



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### Hazard statements

H312 - Harmful in contact with skin  
H319 - Causes serious eye irritation

### Precautionary statements

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P337 + P313 - If eye irritation persists: Get medical advice/attention  
P362 - Take off contaminated clothing and wash before reuse  
P501 - Dispose of contents/ container to an approved waste disposal plant

### Other Information

May be harmful if swallowed

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substance

**Chemical Name** 1,2-Benzenedicarboxylic acid, monopotassium salt  
**Chemical Family** Salts of Organic Acids.  
**Formula** C<sub>8</sub>H<sub>5</sub>KO<sub>4</sub>  
**CAS No** 877-24-7

Percent ranges are used where confidential product information is applicable.

Chemical name	CAS No.	Percent Range	HMRIC #
1,2-Benzenedicarboxylic acid, monopotassium salt	877-24-7	100%	-

## 4. FIRST AID MEASURES

### Description of first aid measures

**Inhalation** Remove to fresh air.  
**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.  
**Skin contact** Wash skin with soap and water.  
**Ingestion** Clean mouth with water and drink afterwards plenty of water.

### Most important symptoms and effects, both acute and delayed

**Symptoms** See Section 11 for additional Toxicological Information.

### Indication of any immediate medical attention and special treatment needed

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
**Unsuitable Extinguishing Media** Caution: Use of water spray when fighting fire may be inefficient.  
**Specific hazards arising from the chemical** No information available.

<b>Hazardous combustion products</b>	Carbon monoxide, Carbon dioxide. Potassium oxides.
<b>Special protective equipment for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

## 6. ACCIDENTAL RELEASE MEASURES

**U.S. Notice** Only persons properly qualified to respond to an emergency involving hazardous substances may respond to a spill according to federal regulations (OSHA 29 CFR 1910.120(a)(v)) and per your company's emergency response plan and guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations should respond to a spill involving chemicals.

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Ensure adequate ventilation.

### Environmental precautions

**Environmental precautions** See Section 12 for additional ecological information.

### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Flammability class** Not applicable

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

### Appropriate engineering controls

**Engineering Controls** Showers  
Eyewash stations  
Ventilation systems.

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

<b>Respiratory protection</b>	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
<b>Skin and body protection</b>	No special protective equipment required.
<b>General Hygiene Considerations</b>	Handle in accordance with good industrial hygiene and safety practice.
<b>Environmental exposure controls</b>	Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.
<b>Thermal hazards</b>	None under normal processing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Solid		
<b>Appearance</b>	crystalline	<b>Color</b>	colorless
<b>Odor</b>	Odorless	<b>Odor threshold</b>	No data available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Molecular weight</b>	204.23 g/mole	
<b>pH</b>	4	
<b>Melting point/freezing point</b>	295 °C / 563 °F	
<b>Boiling point / boiling range</b>	No data available	
<b>Evaporation rate</b>	Not applicable	
<b>Vapor pressure</b>	Not applicable	
<b>Vapor density (air = 1)</b>	Not applicable	
<b>Specific gravity (water = 1 / air = 1)</b>	1.636	
<b>Partition Coefficient (n-octanol/water)</b>	log K <sub>ow</sub> = -2.73	Estimation through KOWWIN v1.68 part of the Estimation Programs Interface (EPI) Suite™
<b>Soil Organic Carbon-Water Partition Coefficient</b>	log K <sub>oc</sub> = 1.91	Estimation through KOCWIN v2.00 part of the Estimation Programs Interface (EPI) Suite™
<b>Autoignition temperature</b>	No data available	
<b>Decomposition temperature</b>	No data available	
<b>Dynamic viscosity</b>	Not applicable	
<b>Kinematic viscosity</b>	Not applicable	

### Solubility(ies)

#### Water solubility

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<u>Water solubility classification</u>	<u>Water solubility</u>	<u>Water Solubility Temperature</u>
Soluble	> 1000 mg/L	25 °C / 77 °F

#### Solubility in other solvents

<u>Chemical Name</u>	<u>Solubility classification</u>	<u>Solubility</u>	<u>Solubility Temperature</u>
Acids	Soluble	> 1000 mg/L	25 °C / 77 °F
Ethyl alcohol	Slightly soluble	> 0.1 mg/L	25 °C / 77 °F

#### Other Information

##### Metal Corrosivity

**Steel Corrosion Rate** 1.98 mm/yr / 0.08 in/yr  
**Aluminum Corrosion Rate** 0.03 mm/yr / 0 in/yr

##### Volatile Organic Compounds (VOC) Content

Not applicable

<u>Chemical name</u>	<u>CAS No.</u>	<u>CAA (Clean Air Act)</u>
1,2-Benzenedicarboxylic acid, monopotassium salt	877-24-7	-

#### Explosive properties

**Upper explosion limit** No data available  
**Lower explosion limit** No data available

#### Flammable properties

**Flash point** Not applicable  
**Method** No information available

#### Flammability Limit in Air

**Upper flammability limit:** No data available  
**Lower flammability limit:** No data available

#### Oxidizing properties

No data available.

#### Bulk density

No data available

#### Particle Size

No information available

#### Particle Size Distribution

No information available

## 10. STABILITY AND REACTIVITY

#### Reactivity

Not applicable.

#### Chemical stability

##### Stability

Stable under normal conditions.

#### Explosion data

**Sensitivity to Mechanical Impact** None  
**Sensitivity to Static Discharge** None.

#### Possibility of Hazardous Reactions

**Possibility of Hazardous Reactions** None under normal processing.

**Hazardous polymerization**  
 None under normal processing.

**Conditions to avoid**  
**Conditions to avoid** None known based on information supplied.

**Incompatible materials**  
**Incompatible materials** None known based on information supplied.

**Hazardous Decomposition Products**  
 Heating to decomposition releases toxic fumes of carbon monoxide and carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### Product Information

**Inhalation** Specific test data for the substance or mixture is not available.  
**Eye contact** Specific test data for the substance or mixture is not available.  
**Skin contact** Specific test data for the substance or mixture is not available.  
**Ingestion** Specific test data for the substance or mixture is not available.  
**Symptoms** No information available.

**Aggravated Medical Conditions** Eye disorders.

**Toxicologically synergistic products** None known.

**Toxicokinetics, metabolism and distribution** This Product is by Weight 100% an Individual Pure Chemical Substance. See ingredients information below.

Chemical name	Toxicokinetics, metabolism and distribution
1,2-Benzenedicarboxylic acid, monopotassium salt (100%) CAS#: 877-24-7	A number of phthalates and their metabolites are suspected of having teratogenic and endocrine disrupting effects. Especially the developmental and reproductive effects of di(2-ethylhexyl)phthalate (DEHP) are under scrutiny.

### Product Acute Toxicity Data

**Oral Exposure Route**  
**Dermal Exposure Route**  
**Inhalation (Dust/Mist) Exposure Route**  
**Inhalation (Vapor) Exposure Route**  
**Inhalation (Gas) Exposure Route**

This Product is by Weight 100% an Individual Pure Chemical Substance

If available, see ingredient data below

**Acute Toxicity Estimations (ATE)**

Not applicable

### Ingredient Acute Toxicity Data

#### Oral Exposure Route

If available, see data below

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
1,2-Benzenedicarboxylic acid, monopotassium salt (100%) CAS#: 877-24-7	Rat LD <sub>50</sub>	> 3200 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)

**Dermal Exposure Route**

If available, see data below

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
1,2-Benzenedicarboxylic acid, monopotassium salt (100%) CAS#: 877-24-7	Guinea pig LD <sub>50</sub>	> 1000 mg/kg	None reported	None reported	RTECS (Registry of Toxic Effects of Chemical Substances)

**Inhalation (Dust/Mist) Exposure Route**

If available, see data below

**Inhalation (Vapor) Exposure Route**

If available, see data below

**Inhalation (Gas) Exposure Route**

If available, see data below

**Product Specific Target Organ Toxicity Single Exposure Data**

**Oral Exposure Route**

If available, see ingredient data below

**Dermal Exposure Route**

If available, see ingredient data below

**Inhalation (Dust/Mist) Exposure Route**

If available, see ingredient data below

**Inhalation (Vapor) Exposure Route**

If available, see ingredient data below

**Inhalation (Gas) Exposure Route**

If available, see ingredient data below

**Ingredient Specific Target Organ Toxicity Single Exposure Data**

**Oral Exposure Route**

If available, see data below

**Dermal Exposure Route**

If available, see data below

**Inhalation (Dust/Mist) Exposure Route**

If available, see data below

**Inhalation (Vapor) Exposure Route**

If available, see data below

**Inhalation (Gas) Exposure Route**

If available, see data below

**Aspiration toxicity**

If available, see data below

**Kinematic viscosity**

Not applicable

**Product Skin Corrosion/Irritation Data**

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

**Ingredient Skin Corrosion/Irritation Data**

If available, see data below

**Product Serious Eye Damage/Eye Irritation Data**

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

**Ingredient Eye Damage/Eye Irritation Data**

No data available

**Sensitization Information**

**Product Sensitization Data**

**Skin Sensitization Exposure Route**

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

**Respiratory Sensitization Exposure Route**

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

**Ingredient Sensitization Data**

**Skin Sensitization Exposure Route**

If available, see data below.

**Respiratory Sensitization Exposure Route**

If available, see data below.

**Chronic Toxicity Information**

**Product Specific Target Organ Toxicity Repeat Dose Data**

**Oral Exposure Route**

If available, see ingredient data below.

**Dermal Exposure Route**

If available, see ingredient data below.

**Inhalation (Dust/Mist) Exposure Route**

If available, see ingredient data below.

**Inhalation (Vapor) Exposure Route**

If available, see ingredient data below.

**Inhalation (Gas) Exposure Route**

If available, see ingredient data below.

**Ingredient Specific Target Organ Toxicity Repeat Exposure Data**

Oral Exposure Route If available, see data below  
 Dermal Exposure Route If available, see data below  
 Inhalation (Dust/Mist) Exposure Route If available, see data below  
 Inhalation (Vapor) Exposure Route If available, see data below  
 Inhalation (Gas) Exposure Route If available, see data below

**Product Carcinogenicity Data**

Oral Exposure Route If available, see ingredient data below  
 Dermal Exposure Route If available, see ingredient data below  
 Inhalation (Dust/Mist) Exposure Route If available, see ingredient data below  
 Inhalation (Vapor) Exposure Route If available, see ingredient data below  
 Inhalation (Gas) Exposure Route If available, see ingredient data below

**Ingredient Carcinogenicity Data**

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
1,2-Benzenedicarboxylic acid, monopotassium salt	877-24-7	-	-	-	-

**Legend**

<b>ACGIH (American Conference of Governmental Industrial Hygienists)</b>	Does not apply
<b>IARC (International Agency for Research on Cancer)</b>	Does not apply
<b>NTP (National Toxicology Program)</b>	Does not apply
<b>OSHA (Occupational Safety and Health Administration of the US Department of Labor)</b>	Does not apply

Oral Exposure Route If available, see data below  
 Dermal Exposure Route If available, see data below  
 Inhalation (Dust/Mist) Exposure Route If available, see data below  
 Inhalation (Vapor) Exposure Route If available, see data below  
 Inhalation (Gas) Exposure Route If available, see data below

**Product Germ Cell Mutagenicity *in vitro* Data**

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

**Ingredient Germ Cell Mutagenicity *in vitro* Data**

No data available

**Product Germ Cell Mutagenicity *in vivo* Data**

Oral Exposure Route If available, see ingredient data below  
 Dermal Exposure Route If available, see ingredient data below  
 Inhalation (Dust/Mist) Exposure Route If available, see ingredient data below  
 Inhalation (Vapor) Exposure Route If available, see ingredient data below  
 Inhalation (Gas) Exposure Route If available, see ingredient data below

**Ingredient Germ Cell Mutagenicity *in vivo* Data**

Oral Exposure Route If available, see data below  
 Dermal Exposure Route If available, see data below  
 Inhalation (Dust/Mist) Exposure Route If available, see data below  
 Inhalation (Vapor) Exposure Route If available, see data below  
 Inhalation (Gas) Exposure Route If available, see data below

**Product Reproductive Toxicity Data**

Oral Exposure Route If available, see ingredient data below  
 Dermal Exposure Route If available, see ingredient data below  
 Inhalation (Dust/Mist) Exposure Route If available, see ingredient data below  
 Inhalation (Vapor) Exposure Route If available, see ingredient data below  
 Inhalation (Gas) Exposure Route If available, see ingredient data below

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**Ingredient Reproductive Toxicity Data**

**Oral Exposure Route**

If available, see data below

**Inhalation (Dust/Mist) Exposure Route**

If available, see data below

**Inhalation (Vapor) Exposure Route**

If available, see data below

**Inhalation (Gas) Exposure Route**

If available, see data below

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Not considered to be harmful to aquatic life

**Product Ecological Data**

This Product is by Weight 100% an Individual Pure Chemical Substance

**Aquatic toxicity**

**Fish**

If available, see ingredient data below

**Crustacea**

If available, see ingredient data below

**Algae**

If available, see ingredient data below

**Ingredient Ecological Data**

**Aquatic toxicity**

**Fish**

If available, see ingredient data below

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
1,2-Benzenedicarboxylic acid, monopotassium salt (100%) CAS#: 877-24-7	96 hours	None reported	LC <sub>50</sub>	9323 mg/L	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

**Crustacea**

If available, see ingredient data below

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
1,2-Benzenedicarboxylic acid, monopotassium salt (100%) CAS#: 877-24-7	48 Hours	None reported	LC <sub>50</sub>	4859 mg/L	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

**Algae**

If available, see ingredient data below

Chemical name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
1,2-Benzenedicarboxylic acid, monopotassium salt (100%) CAS#: 877-24-7	96 hours	None reported	EC <sub>50</sub>	2538 mg/L	Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™

**Other Information**

**Persistence and degradability**

**Product Biodegradability Data**

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.

**Ingredient Biodegradability Data**

Test data reported below

Chemical name	Test method	Biodegradation	Exposure	Results
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1,2-Benzenedicarboxylic acid, monopotassium salt (100%) CAS#: 877-24-7	OECD Test No. 303: Simulation Test - Aerobic Sewage Treatment -- A: Activated Sludge Units; B: Biofilms	None reported	time None reported	Readily biodegradable
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### Bioaccumulation

#### Product Bioaccumulation Data

This Product is by Weight 100% an Individual Pure Chemical Substance.

#### Partition Coefficient (n-octanol/water)

log K<sub>ow</sub> = -2.73

#### Ingredient Bioaccumulation Data

No data available

Chemical name	Partition Coefficient (n-octanol/water)	Method
1,2-Benzenedicarboxylic acid, monopotassium salt (100%) CAS#: 877-24-7	log K <sub>ow</sub> = -2.73	Estimation through KOWWIN v1.68 part of the Estimation Programs Interface (EPI) Suite™

### Mobility

#### Product Information

#### Soil Organic Carbon-Water Partition Coefficient

log K<sub>oc</sub> = 1.91

#### Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

### Ingredient Information

Chemical name	Soil Organic Carbon-Water Partition Coefficient	Method
1,2-Benzenedicarboxylic acid, monopotassium salt (100%) CAS#: 877-24-7	log K <sub>oc</sub> = 1.91	Estimation through KOCWIN v2.00 part of the Estimation Programs Interface (EPI) Suite™

Chemical name	Water solubility classification	Water solubility	Water solubility temperature °C	Water solubility temperature °F
1,2-Benzenedicarboxylic acid, monopotassium salt CAS#: 877-24-7	Soluble	> 1000 mg/L	25 °C	77 °F

### Other adverse effects

Endocrine-disrupting potential.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### Waste from residues/unused products

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

**Special instructions for disposal** Work in an approved fume hood. Dilute material with excess water making a weaker than 5% solution. Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate. If permitted by regulation. Open cold water tap completely, slowly pour the reacted material to the drain. Allow cold water to run for 5 minutes to completely flush the system. Check with local municipal and state authorities and waste contractors for pertinent local information regarding the proper disposal of chemicals.

## 14. TRANSPORT INFORMATION

**U.S. DOT** Not regulated  
**TDG** Not regulated  
**IATA** Not regulated  
**IMDG** Not regulated  
**Note:** No special precautions necessary.

### Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

## 15. REGULATORY INFORMATION

### National Inventories

**TSCA** Complies  
**DSL/NDSL** Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

### International Inventories

**EINECS/ELINCS** Complies  
**ENCS** Complies  
**IECSC** Complies  
**KECL** Complies  
**PICCS** Complies  
**TCSI** Complies  
**AICS** Complies  
**NZIoC** Complies

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**TCSI** - Taiwan Chemical Substances Inventory

**AICS** - Australian Inventory of Chemical Substances

**NZIoC** - New Zealand Inventory of Chemicals

### US Federal Regulations

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**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

**SARA 311/312 Hazard Categories**

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

**CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals

**U.S. State Right-to-Know Regulations**

**U.S. EPA Label Information**

**16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION**

**Special Comments**

None

**Additional information**

**Global Automotive Declarable Substance List (GADSL)**

Not applicable

**NFPA and HMIS Classifications**

<b>NFPA</b>	<b>Health hazards - 2</b>	<b>Flammability - 0</b>	<b>Instability - 0</b>	<b>Physical and Chemical Properties -</b>
<b>HMIS</b>	<b>Health hazards - 2</b>	<b>Flammability - 0</b>	<b>Physical Hazards - 0</b>	<b>Personal protection - X</b> - See section 8 for more information

**Key or legend to abbreviations and acronyms used in the safety data sheet**

*NIOSH IDLH* Immediately Dangerous to Life or Health  
*ACGIH* ACGIH (American Conference of Governmental Industrial Hygienists)

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NDF

no data

**Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
MAC	Maximum Allowable Concentration	Ceiling	Ceiling Limit Value
X	Listed	Vacated	These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations.
SKN*	Skin designation	SKN+	Skin sensitization
RSP+	Respiratory sensitization	**	Hazard Designation
C	Carcinogen	R	Reproductive toxicant
M	mutagen		

**Prepared By** Hach Product Compliance Department

**Issue Date** 11-Dec-2017

**Revision Date** 11-Dec-2017

**Revision Note** None

**Disclaimer**

**USER RESPONSIBILITY:** Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

**THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.**

**HACH COMPANY©2017**

**End of Safety Data Sheet**