



**Be Right™**

# SAFETY DATA SHEET

Issue Date 11-Sep-2018

Revision Date  
17-Sep-2019

Version 5.3

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## 1. IDENTIFICATION

**Product identifier**

**Product Name** Buffer Powder Citrate Type

**Other means of identification**

**Product Code(s)** 2107669

**Safety data sheet number** M00023

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

**Recommended Use** Laboratory reagent. Determination of manganese.

**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

## 2. HAZARDS IDENTIFICATION

**Classification**

**Regulatory Status**

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

|                                   |             |
|-----------------------------------|-------------|
| Skin corrosion/irritation         | Category 2  |
| 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**

H315 - Causes skin irritation

H319 - Causes serious eye irritation

#### **Precautionary statements**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P362 - Take off contaminated clothing and wash before reuse

P280 - Wear protective gloves/protective clothing/eye protection/face protection

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

#### **Other Hazards Known**

Harmful to aquatic life

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **Substance**

Not applicable

#### **Mixture**

| Chemical name            | CAS No.   | Percent Range | HMRIC # |
|--------------------------|-----------|---------------|---------|
| Sodium phosphate dibasic | 7558-79-4 | 50 - 60%      | -       |
| Sodium sulfate           | 7757-82-6 | 30 - 40%      | -       |
| Citric acid              | 77-92-9   | 10 - 20%      | -       |

### **4. FIRST AID MEASURES**

#### **Description of first aid measures**

##### **General advice**

Show this safety data sheet to the doctor in attendance.

##### **Inhalation**

Remove to fresh air. Get medical attention immediately if symptoms occur.

##### **Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.

##### **Skin contact**

Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

##### **Ingestion**

Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

##### **Self-protection of the first aider**

Avoid contact with skin, eyes or clothing.

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

##### **Symptoms**

Burning sensation.

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

##### **Note to physicians**

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

|                                                       |                                                                                                                                    |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                            |
| <b>Unsuitable Extinguishing Media</b>                 | Caution: Use of water spray when fighting fire may be inefficient.                                                                 |
| <b>Specific hazards arising from the chemical</b>     | No information available.                                                                                                          |
| <b>Hazardous combustion products</b>                  | Phosphorus oxides. Sodium monoxide. Sulfur oxides. Carbon monoxide, Carbon dioxide.                                                |
| <b>Special protective equipment for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

## 6. ACCIDENTAL RELEASE MEASURES

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>U.S. Notice</b> | 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

|                             |                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b> | Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. |
| <b>Other Information</b>    | Refer to protective measures listed in Sections 7 and 8.                                                               |

### Environmental precautions

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| <b>Environmental precautions</b> | Prevent further leakage or spillage if safe to do so. |
|----------------------------------|-------------------------------------------------------|

### Methods and material for containment and cleaning up

|                                        |                                                                                      |
|----------------------------------------|--------------------------------------------------------------------------------------|
| <b>Methods for containment</b>         | Prevent further leakage or spillage if safe to do so.                                |
| <b>Methods for cleaning up</b>         | Pick up and transfer to properly labeled containers.                                 |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations. |
| <b>Reference to other sections</b>     | See section 8 for more information. See section 13 for more information.             |

## 7. HANDLING AND STORAGE

### Precautions for safe handling

|                                |                                                                                                                                                                                                                             |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Advice on safe handling</b> | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Conditions for safe storage, including any incompatibilities

|                           |                                                                          |
|---------------------------|--------------------------------------------------------------------------|
| <b>Storage Conditions</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. |
| <b>Flammability class</b> | 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

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hand Protection** Wear suitable gloves. Impervious gloves.

**Eye/face protection** If splashes are likely to occur, wear safety glasses with side-shields.

**Skin and body protection** Wear suitable protective clothing. Long sleeved clothing.

**General Hygiene Considerations** Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

**Environmental exposure controls** 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.

**Thermal hazards** None under normal processing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |        |                       |                   |
|-----------------------|--------|-----------------------|-------------------|
| <b>Physical state</b> | Solid  |                       |                   |
| <b>Appearance</b>     | powder | <b>Color</b>          | white             |
| <b>Odor</b>           | None   | <b>Odor threshold</b> | No data available |

| <u>Property</u>                                | <u>Values</u>               | <u>Remarks • Method</u> |
|------------------------------------------------|-----------------------------|-------------------------|
| <b>Molecular weight</b>                        | No data available           |                         |
| <b>pH</b>                                      | 6.35                        | 1% Solution             |
| <b>Melting point/freezing point</b>            | 160 °C / 320 °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>  | 2.30                        |                         |
| <b>Partition Coefficient (n-octanol/water)</b> | log K <sub>ow</sub> ~ -1.25 |                         |

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**Soil Organic Carbon-Water Partition Coefficient**  $\log K_{oc} \sim -0.63$   
**Autoignition temperature** No data available  
**Decomposition temperature** No data available  
**Dynamic viscosity** Not applicable  
**Kinematic viscosity** Not applicable

**Solubility(ies)**

**Water solubility**

| <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> |
|----------------------|----------------------------------|-------------------|-------------------------------|
| None reported        | No information available         | No data available | No information available      |

**Other Information**

**Metal Corrosivity**

**Steel Corrosion Rate** Not applicable  
**Aluminum Corrosion Rate** Not applicable

**Volatile Organic Compounds (VOC) Content**

Not applicable

| <b>Chemical name</b>     | <b>CAS No.</b> | <b>Volatile organic compounds (VOC) content</b> | <b>CAA (Clean Air Act)</b> |
|--------------------------|----------------|-------------------------------------------------|----------------------------|
| Sodium phosphate dibasic | 7558-79-4      | No data available                               | -                          |
| Sodium sulfate           | 7757-82-6      | No data available                               | -                          |
| Citric acid              | 77-92-9        | Not applicable                                  | -                          |

**Explosive properties**

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

**Flammable properties**

**Flash point** Not applicable

**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

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## 10. STABILITY AND REACTIVITY

### Reactivity

Not applicable.

### Chemical stability

Stable under normal conditions.

### Explosion data

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

### Possibility of Hazardous Reactions

None under normal processing.

### Hazardous polymerization

None under normal processing.

### Conditions to avoid

None known based on information supplied.

### Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents.

### Hazardous Decomposition Products

Phosphorus oxides. Sulfur oxides. Carbon monoxide. Carbon dioxide.

## 11. TOXICOLOGICAL INFORMATION

### Information on Likely Routes of Exposure

#### Product Information

|                     |                                                                                 |
|---------------------|---------------------------------------------------------------------------------|
| <b>Inhalation</b>   | May cause irritation of respiratory tract.                                      |
| <b>Eye contact</b>  | Irritating to eyes. Causes serious eye irritation.                              |
| <b>Skin contact</b> | Causes skin irritation.                                                         |
| <b>Ingestion</b>    | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

**Symptoms** Redness. May cause redness and tearing of the eyes.

### Acute toxicity

Based on available data, the classification criteria are not met

### Product Acute Toxicity Data

No data available.

### Ingredient Acute Toxicity Data

No data available.

| Chemical name                              | Endpoint type           | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data                   |
|--------------------------------------------|-------------------------|---------------|---------------|-----------------------|------------------------------------------------------------------|
| Citric acid<br>(10 - 20%)<br>CAS#: 77-92-9 | Rat<br>LD <sub>50</sub> | 3000 mg/kg    | None reported | None reported         | IUCLID (The International Uniform Chemical Information Database) |

### Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity.

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#### Acute Toxicity Estimations (ATE)

The following values are calculated based on chapter 3.1 of the GHS document

|                                      |                          |
|--------------------------------------|--------------------------|
| <b>ATEmix (oral)</b>                 | 16,854.00 mg/kg          |
| <b>ATEmix (dermal)</b>               | 14,045.00 mg/kg          |
| <b>ATEmix (inhalation-dust/mist)</b> | No information available |
| <b>ATEmix (inhalation-vapor)</b>     | No information available |
| <b>ATEmix (inhalation-gas)</b>       | No information available |

#### Skin corrosion/irritation

Classification based on data available for ingredients. Irritating to skin.

#### **Product Skin Corrosion/Irritation Data**

No data available.

#### **Ingredient Skin Corrosion/Irritation Data**

No data available.

| Chemical name                                          | Test method          | Species | Reported dose | Exposure time | Results                             | Key literature references and sources for data           |
|--------------------------------------------------------|----------------------|---------|---------------|---------------|-------------------------------------|----------------------------------------------------------|
| Sodium phosphate dibasic (50 - 60%)<br>CAS#: 7558-79-4 | Standard Draize Test | Rabbit  | 500 mg        | 24 hours      | Skin irritant                       | RTECS (Registry of Toxic Effects of Chemical Substances) |
| Sodium sulfate (30 - 40%)<br>CAS#: 7757-82-6           | Standard Draize Test | Rabbit  | 500 mg        | 4 hours       | Not corrosive or irritating to skin | ECHA (The European Chemicals Agency)                     |
| Citric acid (10 - 20%)<br>CAS#: 77-92-9                | Standard Draize Test | Rabbit  | 500 mg        | 24 hours      | Mild skin irritant                  | RTECS (Registry of Toxic Effects of Chemical Substances) |

#### Serious eye damage/irritation

Classification based on data available for ingredients. Irritating to eyes.

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

No data available.

#### **Ingredient Eye Damage/Eye Irritation Data**

No data available.

| Chemical name                                          | Test method          | Species | Reported dose | Exposure time | Results                             | Key literature references and sources for data           |
|--------------------------------------------------------|----------------------|---------|---------------|---------------|-------------------------------------|----------------------------------------------------------|
| Sodium phosphate dibasic (50 - 60%)<br>CAS#: 7558-79-4 | Standard Draize Test | Rabbit  | 500 mg        | 24 hours      | Eye irritant                        | RTECS (Registry of Toxic Effects of Chemical Substances) |
| Sodium sulfate (30 - 40%)<br>CAS#: 7757-82-6           | Standard Draize Test | Rabbit  | 90 mg         | 24 hours      | Not corrosive or irritating to eyes | ECHA (The European Chemicals Agency)                     |
| Citric acid (10 - 20%)<br>CAS#: 77-92-9                | Standard Draize Test | Rabbit  | 0.750 mg      | 24 hours      | Eye irritant                        | RTECS (Registry of Toxic Effects of Chemical Substances) |

#### Respiratory or skin sensitization

Based on available data, the classification criteria are not met.

#### **Product Sensitization Data**

No data available.

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#### **Ingredient Sensitization Data**

No data available.

| Chemical name                                   | Test method                                 | Species    | Results                               | Key literature references and sources for data |
|-------------------------------------------------|---------------------------------------------|------------|---------------------------------------|------------------------------------------------|
| Sodium sulfate<br>(30 - 40%)<br>CAS#: 7757-82-6 | OECD Test No.<br>406: Skin<br>Sensitization | Guinea pig | Not confirmed to be a skin sensitizer | HSDB (Hazardous Substances Data Bank)          |

#### **STOT - single exposure**

Based on available data, the classification criteria are not met.

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

No data available.

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

No data available.

#### **STOT - repeated exposure**

Based on available data, the classification criteria are not met.

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

No data available.

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

No data available.

#### **Carcinogenicity**

Based on available data, the classification criteria are not met.

#### **Product Carcinogenicity Data**

No data available.

#### **Ingredient Carcinogenicity Data**

No data available.

| Chemical name            | CAS No.   | ACGIH | IARC | NTP | OSHA |
|--------------------------|-----------|-------|------|-----|------|
| Sodium phosphate dibasic | 7558-79-4 | -     | -    | -   | -    |
| Sodium sulfate           | 7757-82-6 | -     | -    | -   | -    |
| Citric acid              | 77-92-9   | -     | -    | -   | -    |

#### **Legend**

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

#### **Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

#### **Product Germ Cell Mutagenicity *invitro* Data**

No data available.

#### **Ingredient Germ Cell Mutagenicity *invitro* Data**

No data available.

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

No data available.

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

No data available.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**Product Reproductive Toxicity Data**

No data available.

**Ingredient Reproductive Toxicity Data**

No data available.

| Chemical name                                   | Endpoint type             | Reported dose | Exposure time | Toxicological effects                                           | Key literature references and sources for data           |
|-------------------------------------------------|---------------------------|---------------|---------------|-----------------------------------------------------------------|----------------------------------------------------------|
| Sodium sulfate<br>(30 - 40%)<br>CAS#: 7757-82-6 | Mouse<br>TD <sub>Lo</sub> | 14000 mg/kg   | 4 days        | <b>Effects on Newborn</b><br>Other neonatal measures or effects | RTECS (Registry of Toxic Effects of Chemical Substances) |

**Aspiration hazard**

Based on available data, the classification criteria are not met.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Unknown aquatic toxicity**

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

**Product Ecological Data**

**Aquatic Acute Toxicity**

No data available.

**Aquatic Chronic Toxicity**

No data available.

**Ingredient Ecological Data**

**Aquatic Acute Toxicity**

No data available.

| Chemical name                                   | Exposure time | Species              | Endpoint type    | Reported dose | Key literature references and sources for data                   |
|-------------------------------------------------|---------------|----------------------|------------------|---------------|------------------------------------------------------------------|
| Sodium sulfate<br>(30 - 40%)<br>CAS#: 7757-82-6 | 96 hours      | None reported        | LC <sub>50</sub> | 56 mg/L       | IUCLID (The International Uniform Chemical Information Database) |
| Chemical name                                   | Exposure time | Species              | Endpoint type    | Reported dose | Key literature references and sources for data                   |
| Sodium sulfate<br>(30 - 40%)<br>CAS#: 7757-82-6 | 48 Hours      | <i>Daphnia magna</i> | EC <sub>50</sub> | 3150 mg/L     | IUCLID (The International Uniform Chemical Information Database) |

**Aquatic Chronic Toxicity**

No data available.

**Persistence and degradability**

**Product Biodegradability Data**

No data available.

**Bioaccumulation**

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**Product Bioaccumulation Data**

No data available.

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

log K<sub>ow</sub> ~ -1.25

**Mobility**

**Soil Organic Carbon-Water Partition Coefficient**

log K<sub>oc</sub> ~ -0.63

**Other adverse effects**

No information available.

### 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**

If permitted by regulation. Dilute to 3 to 5 times the volume with cold water. Open cold water tap completely, slowly pour the material to the drain. Flush system with plenty of water. Dispose of material in an E.P.A. approved hazardous waste facility.

### 14. TRANSPORT INFORMATION

**DOT**

Not regulated

**TDG**

Not regulated

**IATA**

Not regulated

**IMDG**

Not regulated

**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

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|-------|----------|
| 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

#### 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

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | Yes |
| Chronic Health Hazard             | No  |
| Fire hazard                       | No  |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | 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)

| Chemical name                         | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Sodium phosphate dibasic<br>7558-79-4 | 5000 lb                     | -                      | -                         | X                          |

#### 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

| Chemical name                         | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ)                   |
|---------------------------------------|--------------------------|----------------|--------------------------------------------|
| Sodium phosphate dibasic<br>7558-79-4 | 5000 lb                  | -              | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

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

This product does not contain any substances regulated by state right-to-know regulations.

| Chemical name                         | New Jersey | Massachusetts | Pennsylvania |
|---------------------------------------|------------|---------------|--------------|
| Sodium phosphate dibasic<br>7558-79-4 | X          | X             | X            |
| Sodium sulfate<br>7757-82-6           | -          | X             | X            |

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#### U.S. EPA Label Information

| Chemical name            | FIFRA    | FDA                                                             |
|--------------------------|----------|-----------------------------------------------------------------|
| Sodium phosphate dibasic | 180.0910 | 21 CFR 182.1778,21 CFR 182.6290,21 CFR 182.6778,21 CFR 182.8778 |
| Sodium sulfate           | -        | 21 CFR 186.1797                                                 |
| Citric acid              | 180.0950 | 21 CFR 184.1033                                                 |

#### **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

| NFPA | Health hazards - 2 | Flammability - 0 | Instability - 0      | Physical and chemical properties - |
|------|--------------------|------------------|----------------------|------------------------------------|
| HMIS | Health hazards - 2 | Flammability - 0 | Physical hazards - 0 | Personal protection - X            |

##### 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)  
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

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2

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**Product Name** Buffer Powder Citrate Type  
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**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.

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**End of Safety Data Sheet**