

# SAFETY DATA SHEET

Issue Date 27-Jun-2016 Revision Date 31-Jan-2017 Version 2 Page 1 / 16

## 1. IDENTIFICATION

Product identifier

**Product Name** Buffer Solution, pH 2.0

Other means of identification

Product Code(s) 45233

Safety data sheet number M00489

**Synonyms** 

Recommended use of the chemical and restrictions on use

**Recommended Use** Buffer. Standard solution.

**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 (970) 669-3050

Emergency telephone number

(303) 623-5716 - 24 Hour Service (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)

Serious eye damage/eye irritation

Category 1

## Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

Signal word - Danger



**Product Name** Buffer Solution, pH 2.0 **Revision Date** 31-Jan-2017

Page 2/16

#### **Hazard statements**

H314 - Causes severe skin burns and eye damage

#### **Precautionary statements**

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

P310 - Immediately call a POISON CENTER or doctor/physician

#### Other Information

Not applicable

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable

#### **Mixture**

**Synonyms** 

Chemical Family

Mixture.

Percent ranges are used where confidential product information is applicable.

Chemical Name	CAS No	Percent Range	HMRIC #
Sodium sulfate	7757-82-6	7 - 13%	-
Sodium bisulfate	7681-38-1	7 - 13%	-

### 4. FIRST AID MEASURES

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

**General advice** IF IN EYES: Flush eyes for at least 15 minutes.

Eye contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Call a physician immediately.

**Skin contact** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin

with water/shower. If symptoms persist, call a physician.

Inhalation IF INHALED: Remove person to fresh air and keep comfortable for breathing. If symptoms

persist, call a physician.

Ingestion IF SWALLOWED: Rinse Mouth. If symptoms persist, call a physician.

Self-protection of the first aider

Use personal protective equipment as required. Ensure that medical personnel are aware

of the material(s) involved and take precautions to protect themselves.

Most important symptoms and effects, both acute and delayed

Symptoms See Section 11: TOXICOLOGICAL INFORMATION.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.

**Product Name** Buffer Solution, pH 2.0 **Revision Date** 31-Jan-2017

Page 3/16

### 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.

#### Flammable properties

Not flammable.

### Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

**Hazardous combustion products** 

This material will not burn.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective 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.

EC Notice Only persons properly qualified to respond to an emergency involving hazardous

substances should respond to a spill involving chemicals. See Section 13, Special

Instructions for disposal assistance.

WHMIS Notice Only persons properly qualified to respond to an emergency involving hazardous

substances should respond to a spill involving chemicals. See Section 13, Special

Instructions for disposal assistance.

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Do not touch or walk through spilled material. Ventilate

affected area. Use personal protective equipment as required.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

**Environmental precautions**Do not allow into any sewer, on the ground or into any body of water. Should not be

released into the environment. Prevent further leakage or spillage if safe to do so. Prevent

product from entering drains. 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. Dike far ahead of liquid spill for later

disposal.

Methods for cleaning up

Neutralize spill if necessary. Soak up with inert absorbent material. Take up mechanically,

placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

Dispose of in accordance with local, state and federal regulations or laws.

**Emergency Response Guide Number** 

Not applicable

**Product Name** Buffer Solution, pH 2.0 **Revision Date** 31-Jan-2017

Page 4/16

## 7. HANDLING AND STORAGE

Precautions for safe handling

Do not breathe dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of

children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in

properly labeled containers.

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.

**Legend** See section 16 for terms and abbreviations

Appropriate engineering controls

**Engineering Controls** Eyewash stations

Ventilation systems

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear tight sealing safety goggles and/or face protection shield. Avoid contact with eyes.

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**General Hygiene Considerations** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Wear suitable gloves and eye/face protection. Wash face, hands and any exposed skin thoroughly after handling. Regular cleaning of equipment, work area and clothing is recommended. Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** 

Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical state Liquid

Gas Under Pressure Not classified according to GHS criteria

Version 2

Product Name Buffer Solution, pH 2.0

Revision Date 31-Jan-2017

Page 5/16

Appearance aqueous solution

clear

Color colorless

Odor Odorless

Odor threshold No data available

Property Values Remarks • Method

Molecular weight No data available

pH 2.0 20% Solution

Melting point/freezing point ~ -10 °C / 14 °F Estimation based on theoretical

calculation

**Boiling point / boiling range** ~ 103 °C / 217 °F Estimation based on theoretical

calculation

**Evaporation rate** 0.54 (water = 1)

Vapor pressure 16.877 mm Hg / 2.25 kPa at 20 °C / 68 °F Estimation based on theoretical

calculation

Vapor density (air = 1) 0.62

Specific gravity (water = 1 / air = 1) 1.198

Partition Coefficient (n-octanol/water) Not applicable

**Soil Organic Carbon-Water Partition** 

Coefficient

Not applicable

Autoignition temperature No data available

**Decomposition temperature** No data available

**Dynamic viscosity** No data available

Kinematic viscosity No data available

### Solubility(ies)

#### Water solubility

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

### Solubility in other solvents

Chemical Name	Solubility classification	Solubility	Solubility Temperature
Acid	Soluble	> 1000 mg/L	25 °C / 77 °F

#### Other Information

Metal Corrosivity

Not classified as corrosive to metal according to GHS criteria

Steel Corrosion Rate 3.15 mm/yr / 0.12 in/yr
Aluminum Corrosion Rate 0.3 mm/yr / 0.01 in/yr

Bulk density Not applicable

Version 2

Product Name Buffer Solution, pH 2.0

Revision Date 31-Jan-2017

Page 6/16

Explosive properties Not classified according to GHS criteria.

Explosion data No data available

Upper explosion limit No data available

Lower explosion limit No data available

Flammable properties Not flammable.

Flammability Limit in Air

Upper flammability limit: No data available

Lower flammability limit: No data available

Flash point No data available

Method No information available

Oxidizing properties Not classified according to GHS criteria.

Reactivity propeties Not classified as self-reactive, pyrophoric, self-heating or emitting

flammable gases in contact with water according to GHS criteria.

### 10. STABILITY AND REACTIVITY

#### **Reactivity propeties**

Not classified as self-reactive, pyrophoric, self-heating or emitting flammable gases in contact with water according to GHS criteria

#### **Chemical stability**

Stable under recommended storage conditions.

#### Special dangers of the product

None reported

#### **Possibility of Hazardous Reactions**

None under normal processing.

**Hazardous polymerization** Hazardous polymerization does not occur.

#### **Conditions to avoid**

Extremes of temperature and direct sunlight. Incompatible materials.

#### Incompatible materials

Strong oxidizing agents. Strong acids. Strong bases.

### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### **Explosive properties**

Not classified according to GHS criteria.

Upper explosion limit No data available

**Product Name** Buffer Solution, pH 2.0 **Revision Date** 31-Jan-2017

Page 7/16

Lower explosion limit

No data available

**Autoignition temperature** 

No data available

Sensitivity to Static Discharge

None reported

**Sensitivity to Mechanical Impact** 

None reported

## 11. TOXICOLOGICAL INFORMATION

NIOSH (RTECS) Number

None reported

### Information on Likely Routes of Exposure

Product Information	Corrosive to eyes.
Inhalation	No known effect based on information supplied.
Eye contact	Corrosive to the eyes and may cause severe damage including blindness. Corrosive to eyes.
Skin contact	No known effect based on information supplied.
Ingestion	No known effect based on information supplied.
Aggravated Medical Conditions	Eye disorders.
Toxicologically synergistic products	None known.
Toxicokinetics, metabolism and distribution	No information available.

**Product Acute Toxicity Data** 

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

**ATEmix (oral)** 21,447.00

### **Ingredient Acute Toxicity Data**

**Oral Exposure Route** 

If available, see data below

O. W. —   DOG								
Chemical Name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and			
	type	dose	time		sources for data			
Sodium bisulfate	Rat	2490 mg/kg	None	None reported	IUCLID (The International			
(7 - 13%)	LD <sub>50</sub>		reported		Uniform Chemical Information			
CAS#: 7681-38-1					Database)			
Chemical Name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and			
	type	dose	time		sources for data			
Sodium sulfate	Mouse	5989 mg/kg	None	None reported	IUCLID (The International			
(7 - 13%)	LD <sub>50</sub>		reported	·	Uniform Chemical Information			
CAS#: 7757-82-6			-		Database)			

**Dermal Exposure Route** 

No data available

Inhalation (Dust/Mist) Exposure Route

No data available

**Product Name** Buffer Solution, pH 2.0 **Revision Date** 31-Jan-2017

**Page** 8 / 16

**Inhalation (Vapor) Exposure Route** 

If available, see data below

Inhalation (Gas) Exposure Route

No data available

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

No data available.

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

If available, see data below

Chemical Name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium sulfate (7 - 13%) CAS#: 7757-82-6	Standard Draize Test	Rabbit	500 mg	4 hours	Not corrosive or irritating to skin	ECHA (The European Chemicals Agency)
Sodium bisulfate (7 - 13%) CAS#: 7681-38-1	Standard Draize Test	Rabbit	500 mg	4 hours	Not corrosive or irritating to skin	ECHA (The European Chemicals Agency)
Chemical Name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium sulfate (7 - 13%) CAS#: 7757-82-6	Open Irritation Test	Guinea pig	100 mg	5 days	Not corrosive or irritating to skin	ECHA (The European Chemicals Agency)

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

No data available.

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

If available, see data below

Chemical Name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Sodium sulfate (7 - 13%) CAS#: 7757-82-6	Standard Draize Test	Rabbit	90 mg	24 hours	Not corrosive or irritating to eyes	ECHA (The European Chemicals Agency)
Sodium bisulfate (7 - 13%) CAS#: 7681-38-1	Standard Draize Test	Rabbit	100 mg	None reported	Eye irritant	ECHA (The European Chemicals Agency)

### **Sensitization Information**

**Product Sensitization Data** 

Skin Sensitization Exposure Route No data available.

Respiratory Sensitization Exposure Route No data available.

**Ingredient Sensitization Data** 

Skin Sensitization Exposure Route If available, see data below.

<u> </u>		-		
Chemical Name	Test method	Species	Results	Key literature references and
				sources for data
Sodium sulfate	OECD Test No.	Guinea pig	Not confirmed to be a skin sensitizer	HSDB (Hazardous Substances Data
(7 - 13%)	406: Skin			Bank)
CAS# 7757-82-6	Sensitization			i i

Version 2

Product Name Buffer Solution, pH 2.0

Revision Date 31-Jan-2017

Page 9/16

Respiratory Sensitization Exposure Route No data available.

**Chronic Toxicity Information** 

**Product Repeat Dose Toxicity Data** 

Oral Exposure Route No data available.

Dermal Exposure Route No data available.

Inhalation (Dust/Mist) Exposure Route No data available.

Inhalation (Vapor) Exposure Route No data available.

Inhalation (Gas) Exposure Route No data available.

**Ingredient Repeat Dose Toxicity Data** 

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route If available, see data below

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Chemical Name	CAS No	ACGIH	IARC	NTP	OSHA
Sodium sulfate	7757-82-6	-	-	-	-
Sodium bisulfate	7681-38-1	-	=	=	=

#### 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	Does not apply
Labor)	

<u>Product Carcinogenicity Data</u>

No data available

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

**Ingredient Carcinogenicity Data** 

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Version 2

Product Name Buffer Solution, pH 2.0

Revision Date 31-Jan-2017

**Page** 10 / 16

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Product Germ Cell Mutagenicity invitro Data

No data available.

<u>Ingredient Germ Cell Mutagenicity invitro Data</u>

No data available

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Ingredient Germ Cell Mutagenicity in vivo Data

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

Oral Exposure Route No data available

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

**Ingredient Reproductive Toxicity Data** 

Oral Exposure Route If available, see data below

Chemical Name	Endpoint	Reported	Exposure	Toxicological effects	Key literature references and
	type	dose	time		sources for data
Sodium sulfate	Mouse	14000 mg/kg	4 days	Effects on Newborn	RTECS (Registry of Toxic
(7 - 13%)	$TD_Lo$		-	Other neonatal measures or	Effects of Chemical
CAS#: 7757-82-6				effects	Substances)

Dermal Exposure Route No data available

Inhalation (Dust/Mist) Exposure Route No data available

Inhalation (Vapor) Exposure Route No data available

Inhalation (Gas) Exposure Route No data available

## 12. ECOLOGICAL INFORMATION

Version 2

**Ecotoxicity** 

Product Name Buffer Solution, pH 2.0

Revision Date 31-Jan-2017 Page 11 / 16

Based on the classification principles, not classified as hazardous

to the environment.

**Product Ecological Data** 

**Aquatic toxicity** 

No data available Fish

No data available Crustacea

Algae No data available

**Terrestrial toxicity** 

Soil No data available

No data available **Vertebrates** 

**Invertebrates** No data available

**Ingredient Ecological Data** 

**Aquatic toxicity** 

If available, see ingredient data below Fish

1 1011	n aranasis, see migreater aata seten								
Chemical Name	Exposure	Species	Endpoint	Reported	Key literature references and				
	time		type	dose	sources for data				
Sodium sulfate	96 hours	None reported	LC <sub>50</sub>	56 mg/L	IUCLID (The International				
(7 - 13%)					Uniform Chemical Information				
CAS#: 7757-82-6					Database)				
Chemical Name	Exposure	Species	Endpoint	Reported	Key literature references and				
	time	-	type	dose	sources for data				
Sodium sulfate	96 hours	Pimephales promelas	LC <sub>50</sub>	7960 mg/L	IUCLID (The International				
(7 - 13%)					Uniform Chemical Information				
CAS#: 7757-82-6					Database)				

If available, see ingredient data below Crustacea

Chemical Name	Exposure time	Species	Endpoint type	Reported dose	Key literature references and sources for data
Sodium sulfate (7 - 13%) CAS#: 7757-82-6	48 Hours	Daphnia magna	EC <sub>50</sub>	3150 mg/L	IUCLID (The International Uniform Chemical Information Database)
Sodium bisulfate (7 - 13%) CAS#: 7681-38-1	48 Hours	Daphnia magna	EC50	190 mg/L	IUCLID (The International Uniform Chemical Information Database)

No data available Algae

**Terrestrial toxicity** 

Soil No data available **Vertebrates** No data available No data available **Invertebrates** 

Other Information

**Product Name** Buffer Solution, pH 2.0 **Revision Date** 31-Jan-2017

Page 12 / 16

Persistence and degradability

None known.

**Product Biodegradability Data** 

No data available.

**Ingredient Biodegradability Data** 

No data available

**Bioaccumulation** 

None known.

Product Bioaccumulation Data

No data available.

Ingredient Bioaccumulation Data

No data available

**Additional information** 

**Product Information** 

Partition Coefficient (n-octanol/water)

Not applicable

**Ingredient Information** 

Chemical Name	Partition Coefficient (n-octanol/water)	Method
Sodium sulfate (7 - 13%)	log Kow = -3	No information available
CAS#: 7757-82-6		

#### **Mobility**

Mobility in soil: High mobility. If available, see ingredient data below.

**Product Information** 

**Soil Organic Carbon-Water Partition Coefficient** 

Not applicable

**Ingredient Information** 

Chemical Name	Soil Organic Carbon-Water Partition	Method
	Coefficient	
Sodium sulfate	$log K_{oc} = -1.4$	Estimation through KOCWIN v2.00 part
(7 - 13%)		of the Estimation Programs Interface
CAS#: 7757-82-6		(EPI) Suite™

### **Additional information**

#### Water solubility

### **Product Information**

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

### **Ingredient Information**

Chemical Name	Water solubility	Water solubility	Water solubility	Water solubility
	classification		temperature °C	temperature °F

Product Name Buffer Solution, pH 2.0

Revision Date 31-Jan-2017

Page 13 / 16

Sodium sulfate	Completely soluble	160000 mg/L	20 °C	68 °F
CAS#: 7757-82-6				
Sodium bisulfate	Soluble	> 1000 mg/L	20 °C	68 °F
CAS#: 7681-38-1				

#### Other adverse effects

No information available.

### 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal should be in accordance with applicable regional, national, and local laws and Disposal of wastes

regulations.

Do not reuse container. Contaminated packaging

**US EPA Waste Number** D002

Special instructions for disposal Dilute to 3 to 5 times the volume with cold water. 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. Check with national, local municipal and state authorities and waste contractors for pertinent local information on the

disposal of this article.

## 14. TRANSPORT INFORMATION

Not regulated DOT

Not regulated TDG

Not regulated <u>IATA</u>

Not regulated IMDG

No special precautions necessary. Note:

#### 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 Complies **IECSC** Complies **KECL** 

**Product Name** Buffer Solution, pH 2.0 **Revision Date** 31-Jan-2017

**Page** 14 / 16

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 Yes
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)

#### **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

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium sulfate	-	X	X
7757-82-6			

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

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

**Product Name** Buffer Solution, pH 2.0 **Revision Date** 31-Jan-2017

Page 15 / 16

#### **Additional information**

Global Automotive Declarable Substance List (GADSL)

Not applicable

**Special Comments** 

None

#### NFPA and HMIS Classifications

NFPA	Health hazards - 3	Flammability - 0	Instability - 0	Physical and Chemical Properties -
HMIS	Health hazards - 3	Flammability - 0	Physical Hazards - 0	Personal protection - X
		-	_	- 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 (American Conference of Governmental Industrial Hygienists)

NDF no data

### <u>Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION</u>

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 27-Jun-2016

Revision Date 31-Jan-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.

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Product Name Buffer Solution, pH 2.0 Revision Date 31-Jan-2017 Page 16 / 16

**End of Safety Data Sheet**