

# SAFETY DATA SHEET

## 1. Chemical Product and Company Identification

Description: Buffer Calibration Solution, pH 7.00 (Color Coded-YELLOW)  
Product Code: Signet Part Number 3822-7007  
Product Type: Aqueous Salt Solution  
Application: Calibration of pH and ORP Electrodes

## Manufacturer/Supplier Information

Manufactured for and SDS prepared by:  
Georg Fischer Signet LLC  
3401 Aero Jet Ave.  
El Monte, California 91731

Date Prepared: 05/05/2015

For additional health, safety or regulatory information, call (626) 571-2770

**For Chemical Emergency  
Spill Leak Fire Exposure or Accident  
Call CHEMTREC Day or Night**

**DOMESTIC NORTH AMERICA 800-424-9300  
INTERNATIONAL, CALL 703-527-3887 (collect calls accepted)**

## 2. Hazard(s) Identification

### Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

**Label Elements** None required

### Hazards not otherwise classified (HNOC)

None identified

## 3. Composition / information on ingredients

<i>Chemical</i>	<i>CAS No.</i>	<i>% w/v</i>
Dihydrogen Potassium Phosphate	7778-77-0	0.7
Sodium Hydroxide	1310-73-2	0.1
FD&C Yellow No.5	1934-21-0	0.0-0.02
Water	7732-18-5	99.18

## 4. First Aid Measures

**Eye Contact:** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention if symptoms occur.

**Skin Contact:** Wash off immediately with plenty of water for at least 15 minutes.  
Obtain medical attention if symptoms occur.  
**Inhalation:** Move to fresh air. If breathing is difficult, give oxygen.  
Get medical attention immediately if symptoms occur.  
**Ingestion:** Do not induce vomiting. Obtain medical attention.

**Most important symptoms/effects:** No information available.  
**Notes to Physician:** Treat symptomatically

## 5. Fire-Fighting Measures

**Suitable Extinguishing Media:** Substance is nonflammable; use agent most appropriate to extinguish surrounding fire.

**Unsuitable Extinguishing Media:** No information available

**Flash Point:** Not applicable  
**Method -** No information available

**Autoignition Temperature:** No information available  
**Explosion Limits**  
Upper No data available  
Lower No data available

**Hazardous Combustion Products**  
None known

### 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.

### NFPA

<b>Health</b>	<b>Flammability</b>	<b>Instability</b>	<b>Physical Hazards</b>
1	0	0	N/A

## 6. Accidental release measures

**Personal Precautions** Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

**Environmental Precautions** Avoid release to the environment.

**Methods for Containment and Clean Up** Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 7. Handling and storage

### Handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation.

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

## 8. Exposure controls / personal protection

### Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	(Vacated) Ceiling: 2 mg/m <sup>3</sup> TWA: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup> Ceiling: 2 mg/m <sup>3</sup>

Component	Quebec	Mexico OEL (TWA)	Ontario TWA/EV
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	CEV: 2 mg/m <sup>3</sup>

### Legend

**ACGIH** - American Conference of Governmental Industrial Hygienists

**OSHA** - Occupational Safety and Health Administration

**NIOSH IDLH**- The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

**Engineering Measures** Ensure adequate ventilation, especially in confined areas.  
Ensure that eyewash stations and safety showers are close to the workstation location.

### **Personal Protective Equipment**

**Eye/Face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin and body protection** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Respiratory Protection** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

<b>Physical State</b>	Liquid
<b>Appearance</b>	Yellow
<b>Odor</b>	Odorless
<b>Odor Threshold</b>	No information available
<b>pH</b>	7.00 @ 25 °C
<b>Melting Point/Range</b>	0 °C / 32 °F
<b>Boiling Point/Range</b>	100 °C / 212 °F
<b>Flash Point</b>	Not applicable
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available

### **Flammability or explosive limits**

<b>Upper</b>	No data available
<b>Lower</b>	No data available
<b>Vapor Pressure</b>	760 mmHg @ 20 °C
<b>Vapor Density</b>	No information available
<b>Relative Density</b>	1.0
<b>Solubility</b>	Soluble in water

**Decomposition Temperature** No information available  
**Viscosity** No information available

**10. Stability and reactivity**

**Reactive Hazard** None known, based on information available.  
**Stability** Stable under normal conditions.  
**Conditions to Avoid** No information available.  
**Incompatible Materials** None known.  
**Hazardous Decomposition Products** None under normal use conditions  
**Hazardous Polymerization** Hazardous polymerization does not occur.  
**Hazardous Reactions** None under normal processing.

**11. Toxicological information**

**Acute Toxicity**

**Product Information** No acute toxicity information is available for this product

**Component Information**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Dihydrogen potassium phosphate	Not listed	>4640 mg/kg ( Rabbit )	Not listed
Sodium hydroxide	Not listed	1350 mg/kg ( Rabbit )	Not listed

**Toxicologically Synergistic Products** No information available  
**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Irritation** No information available  
**Sensitization** No information available  
**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	Cas-No	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed
Dihydrogen potassium phosphate	7778-77-0	Not listed	Not listed	Not listed	Not listed	Not listed
Sodium hydroxide	1310-73-2	Not listed	Not listed	Not listed	Not listed	Not listed
FD&C yellow No.5	1934-21-0	Not listed	Not listed	Not listed	Not listed	Not listed

**Mutagenic Effects** No information available  
**Reproductive Effects** No information available.  
**Developmental Effects** No information available.  
**Teratogenicity** No information available.  
**STOT - single exposure** None known  
**STOT - repeated exposure** None known  
**Aspiration hazard** No information available  
  
**Symptoms / Effects** No information available  
**Endocrine Disruptor Information** No information available  
**Other Adverse Effects** The toxicological properties have not been fully investigated.

## 12. Ecological Information

### Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium hydroxide	-	45.4 mg/L LC50 96h	-	-

### Persistence and Degradability

No information available

### Bioaccumulation/ Accumulation

No information available

### Mobility

No information available.

## 13. Disposal Considerations

### Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## 14. Transportation Information

DOT. SHIPPING NAME: Not regulated

DOT. HAZARD CLASS: Not regulated

TDG Not regulated

IATA: Not regulated

IMDG/IMO: Not regulated

## 15. Regulatory Information

**All of the components in the product are on the following inventory lists:** Australia X = listed China Canada Europe TSCA Korea Philippines.

### International Inventories

Component	TSCA	DSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Water	X	X	231-791-2	X	-	X	X	X
Dihydrogen potassium phosphate	X	X	231-913-4	X	X	X	X	X
Sodium hydroxide	X	X	215-185-5	X	X	X	X	X
FD&C yellow No.5	X	X	217-699-5	X	X	X	X	X

### Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance.

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule.

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

### U.S. Federal Regulations

**TSCA 12(b)** Not applicable

**SARA 313** Not applicable

### SARA 311/312 Hazardous Categorization

<b>Acute Health Hazard</b>	No
<b>Chronic Health Hazard</b>	No
<b>Fire Hazard</b>	No
<b>Sudden Release of Pressure Hazard</b>	No
<b>Reactive Hazard</b>	No

### Clean Water Act

Component	CWA - Hazardous	CWA – Reportable Quantities	CWA – Toxic	Component CWA - Hazardous
Sodium hydroxide	X	1000 lb	-	-

**Clean Air Act** Not applicable

**OSHA** Occupational Safety and Health Administration Not applicable

### CERCLA

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide	1000 lb	-

**California Proposition 65** This product does not contain any Proposition 65 chemicals.

### State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium hydroxide	X	X	X	-	X

### U.S. Department of Transportation

Reportable Quantity (RQ):	N
DOT Marine Pollutant	N
DOT Severe Marine Pollutant	N

### U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

### Other International Regulations

**Mexico – Grade:** No information available

**Canada:** This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

**WHMIS Hazard Class:** Non-controlled

**17. Disclaimer**

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**Revision**

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Responsibility for SDS:	S.K. Wells

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