



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
5462 Irwindale Ave.
Irwindale, California 91706

Date Prepared: 7/22/2021

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, REFER TO THE INFORMATION CONTAINED HEREIN AND CALL YOUR
LOCAL GF OFFICE**

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

Dihydrogen Potassium Phosphate

CAS Number: 7778-77-0

% w/v: 0.7

Sodium Hydroxide

CAS Number: 1310-73-2

% w/v: 0.1

FD&C Yellow No.5

CAS Number: 1934-21-0

% w/v: 0.0-0.02

Water

CAS Number: 7732-18-5

% w/v: 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

Health	Flammability	Instability	Physical Hazards
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 ³	(Vacated) Ceiling: 2 mg/m ³ TWA: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Sodium Hydroxide	Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	CEV: 2 mg/m ³

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

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

Flammability or Explosive Limits:

Upper: No data available
Lower: No data available
Vapor Pressure: 760 mmHg @ 20 °C
Vapor Density: No information available
Relative Density: 1.0
Solubility: 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: 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
FD&C Yellow No. 5	12750 mg/kg (Mouse)	Not listed	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 Information:

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 Information:

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium Hydroxide	-	45.4 mg/L LC50 96h	-	-
FD&C Yellow No. 5	Not listed	LC50: > 1000 ppm/48 h (Oryzias latipes)	Not listed	Not listed

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:

Acute Health Hazard:	No
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden Release of Pressure Hazard:	No
Reactive Hazard:	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

Date of latest revision: 7/22/2021
Responsibility for SDS: Kelvin Frazier

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