

# SAFETY DATA SHEET

# 1. Chemical Product and Company Identification

Description: Buffer Calibration Solution, pH 10.00 (Color Coded-BLUE)

Product Code: Signet Part Number 3822-7010

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: 11/28/2018

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

#### Water

**CAS Number:** 7732-18-5

% w/v: 97.78

# Ethylenediaminetetraacetic acid disodium salt dihydrate

**CAS Number:** 6381-92-6

% w/v: 1.0

# **Potassium Carbonate**

**CAS Number:** 584-08-7

**% w/v:** 0.6

# **Boron Potassium Oxide (B4K207)**

**CAS Number:** 1332-77-0

% w/v: 0.4

# **Potassium Hydroxide**

**CAS Number:** 1310-58-3

**% w/v:** 0.2

#### C.I. Acid Blue 9, Disodium Salt

**CAS Number:** 3844-45-9

% w/v: 0.02

#### 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

Specific Hazards Arising from the Chemical: Thermal decomposition can lead to release of irritating

gases and vapors.

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:** Should not be released into the environment.

See Section 12 for additional ecological information.

**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. Do not inhale.

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

# 8. Exposure Controls / Personal Protection

#### **Exposure Guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Boron Potassium	TWA: 2 mg/m <sup>3</sup>		
Oxide (B4K2O7)	STEL: 6 mg/m <sup>3</sup>		
Potassium Hydroxide	Ceiling: 2 mg/m <sup>3</sup>	(Vacated) Ceiling: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Potassium Hydroxide	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

Physical State: Liquid
Appearance: Blue
Odor: Odorless

Odor Threshold: No information available

pH: 10.00 @ 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: No data available

Vapor Density: No information available

**Specific Gravity:** 1.013 @ 25°C **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:** Thermal decomposition can lead to release or irritating gases and vapors

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
Potassium Carbonate	> 2000 mg/kg ( Rat )	Not listed	Not listed
Potassium Hydroxide	284 mg/kg ( Rat )	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 availableSensitization: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				
Ethylenediaminetetraa Cetic Acid, Disodium Salt Dihydrate	638-92-6	Not listed				
Potassium Carbonate	584-08-7	Not listed				

| Boron Potassium Oxide (B4K2O7)  | 1332-77-0 | Not listed |
|---------------------------------|-----------|------------|------------|------------|------------|------------|
| Potassium Hydroxide             | 1310-58-3 | Not listed |
| C.I. Acid Blue 9, Disodium Salt | 3844-45-9 | Not listed |

Mutagenic Effects:No information availableReproductive Effects:No information availableDevelopmental Effects:No information availableTeratogenicity:No information available

STOT - Single Exposure: None known STOT - Repeated Exposure: None known

Aspiration Hazard:
Symptoms / Effects:
No information available
No information available
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
Potassium Carbonate	Not listed	LC50 <510 mg/L 96h	Not listed	Not listed
Potassium Hydroxide	Not listed	80 mg/L LC50 96 h	Not listed	Not listed

Persistence and Degradability:
Bioaccumulation/ Accumulation:
Mobility:

No information available
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:
DOT. HAZARD CLASS:
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	<b>ENCS</b>	AICS	IECSC	KECL
Water	Χ	Χ	231-791-2	Χ	-	Χ	X	Χ
Ethylenediaminetetraa	-	Х	-	Χ	-	Χ	Χ	-
Cetic Acid, Disodium Salt								
Dihydrate								
-								
Potassium Carbonate	Х	Х	209-529-3	Χ	Х	Χ	Χ	Χ
Boron Potassium Oxide	Х	Х	215-575-5	Χ	-	Χ	Х	Х
(B4K2O7)								
Potassium Hydroxide	Х	Х	215-181-3	Х	Х	Х	Х	Х
C.I. Acid Blue 9,	Х	Х	223-339-8	Х	Х	Х	Х	Х
Disodium Salt								

#### 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
Potassium	X	1000 lb	-	-
Hydroxide				

Clean Air Act: Not applicable

**OSHA** 

(Occupational Safety and Health Administration): Not applicable

#### **CERCLA:**

Component	Hazardous Substances RQs	CERCLA EHS RQs
Potassium 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
Water	-	-	X	-	-
Potassium Hydroxide	X	Χ	X	-	X
C.I. Acid Blue 9,	X	-	-	-	-
Disodium Salt					

#### **U.S. Department of Transportation**

Reportable Quantity (RQ): Y
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: 11/28/2018 Responsibility for SDS: S.K. Wells

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