

# Part of Thermo Fisher Scientific

# SAFETY DATA SHEET

Creation Date 09-Dec-2009

Revision Date 07-Apr-2014

**Revision Number** 1

1. Identification				
Product Name	Buffer Solution pH 7.0 (Color-Coded Yellow)			
Cat No. :	SB107-4, SB107-500, SB107-20; SB10720LC			
Synonyms	None.			
Recommended Use	Laboratory chemicals.			
Uses advised against Details of the supplier of the safety	No Information available afety data sheet			
<b>Company</b> Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410	Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887			

### 2. Hazard(s) identification

### Classification

Tel: (201) 796-7100

This chemical is not considered hazardous by the 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

Component	CAS-No	Weight %	
Water	7732-18-5	99.18	
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	

### 4. First-aid measures

**Eye Contact** 

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

	Obtain medical attention.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately 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 Notes to Physician	No information available. 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 Method -	Not applicable No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical None known.

**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 1	Flammability Instability 0 0		Physical hazards N/A			
6. Accidental release measures						
Personal Precautions	Use personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eves and clothing.					
Environmental Precautions	Should not be released into information.	the environment. See Sectior	12 for additional ecological			

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

7. Handling and storage			
Handling Wear personal protective equipment. Ensure adequate ventilation. Avoid contact vertilation.   wear personal protective equipment. Ensure adequate ventilation. Avoid contact vertilation.			
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>	IDLH: 10 mg/m <sup>3</sup>	
		TWA: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	
Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV	
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 that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.
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. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
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		
рН	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		
Partition coefficient; n-octanol/water	No data available		
Autoignition Temperature	No information available		
Decomposition Temperature	No information available		
Viscosity	No information available		

## **10. Stability and reactivity**

**Reactive Hazard** 

Stability

None known, based on information available

Stable under normal conditions.

11. Toxicological information			
Hazardous Reactions None under normal processing.			
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Decomposition Products None known			
Incompatible Materials	None known		
Conditions to Avoid	None known.		

### Acute Toxicity

Product Information Component Information	No acute toxicity information is available for this product						
Component	LD50 Oral	LD50 Oral LD50 Dermal LC50 Inhalation					
Dihydrogen potassium phosphate	Not listed	>4640 mg/kg (Rabbit)	Not listed				
Sodium hydroxide	Not listed	Not listed 1350 mg/kg (Rabbit ) Not listed					
Toxicologically Synergistic	No information available						
Products 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				
Dihydrogen potassium phosphate	7778-77-0	Not listed				
Sodium hydroxide	1310-73-2	Not listed				
FD&C yellow No. 5	1934-21-0	Not listed				
Mutagenic Effects No information available						

Reproductive Effects	No information available.
Developmental Effects	No information available.
Teratogenicity	No information available.
STOT - single exposure STOT - repeated exposure	None known None known
Aspiration hazard	No information available
Symptoms / effects,both acute and	No information available
delayed Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have

The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

# **12. Ecological information**

#### Ecotoxicity

Do not empty into drains.

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

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. Transport information

DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated

### **15. Regulatory information**

### International Inventories

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

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
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### 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 Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Sodium hydroxide	Х	1000 lb	-	-

**Clean Air Act** 

Not applicable

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

### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component		Hazardous Substances RQs	CERCLA EHS RQs
Sodium hydroxide		1000 lb	-
California Proposition 65	This product	does not contain any Proposition 65 che	emicals

#### State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water	-	-	Х	-	-
Sodium hydroxide	Х	Х	Х	-	Х

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

Reportable Quantity (RQ):	Y
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

### 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
VITIVIIS	Παζαι μ	<b>UIA33</b>

Non-controlled

16. Other information		
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com	
Creation Date Revision Date Print Date Revision Summary	09-Dec-2009 07-Apr-2014 07-Apr-2014 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)	

### Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

# **End of SDS**