

# SAFETY DATA SHEET

Creation Date 09-Dec-2009

Revision Date 17-Jan-2018

**Revision Number** 3

 1. Identification

 Product Name
 Buffer Solution pH 7.0 (Color-Coded Yellow)

 Cat No. :
 SB107-4, SB107-500, SB107-20; SB10720LC

 Synonyms
 No information available

 Recommended Use
 Laboratory chemicals.

 Uses advised against
 Not for food, drug, pesticide or biocidal product use

# Details of the supplier of the safety data sheet

### <u>Company</u>

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

## **Emergency Telephone Number**

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

# 2. Hazard(s) identification

### **Classification**

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. Get 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 and 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 Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t 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.

#### <u>NFPA</u>

Health 1	<b>Flammability</b> 0	<b>Instability</b> 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions	ions 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 Section	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 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	Mexico OEL (TWA)
Sodium hydroxide	Ceiling: 2 mg/m <sup>3</sup>	(Vacated) Ceiling: 2 mg/m <sup>3</sup>	IDLH: 10 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>
		TWA: 2 mg/m <sup>3</sup>	Ceiling: 2 mg/m <sup>3</sup>	

## <u>Legend</u>

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

Z + 1 - 11	ysical 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
Specific Gravity	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	None known, based on information available
Stability	Stable under normal conditions.

Conditions to Avoid	None known.
Incompatible Materials	None known
Hazardous Decomposition Products	s None known
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

# Product Information

Component information				
Component LD50 Oral		LD50 Dermal	LC50 Inhalation	
Water	-	Not listed	Not listed	
Dihydrogen potassium phosphate	Not listed	LD50 > 4640 mg/kg (Rabbit)	Not listed	
Sodium hydroxide	Not listed	LD50 = 1350 mg/kg (Rabbit)	Not listed	
FD&C yellow No. 5	12750 mg/kg (Mouse)	Not listed	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	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 ava	ailable			
Reproductive Effects	6	No information ava	ailable.			
Developmental Effect	ts	No information available.				
Teratogenicity		No information available.				
STOT - single exposure None known STOT - repeated exposure None known						
Aspiration hazard No information available		ailable				
Symptoms / effects, delayed	both acute and	No information ava	ailable			

Endocrine Disruptor Information No information available

Other Adverse Effects 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	-	LC50: = 45.4 mg/L, 96h static (Oncorhynchus mykiss)	-	-
FD&C yellow No. 5	Not listed	LC50: > 1000 ppm/48 h (Oryzias latipes)	Not listed	Not listed
Persistence and Degradab	<b>bility</b> No informa	tion available		
Bioaccumulation/ Accumu	Ilation No informa	tion available.		
Mobility	No informa	tion available.		
	13. E	isposal consider	ations	
hazardous w		vaste generators must detern waste. Chemical waste gen zardous waste regulations to	erators must also consult	local, regional, and
	14.	Transport inform	ation	
DOT	Not regulat	ed		
TDG	Not regulat	ed		
ΙΑΤΑ	Not regulat	ed		
IMDG/IMO	Not regulat	ed		

# 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	X	Х	-	217-699-5	-		Х	Х	Х	Х	Х

15. Regulatory information

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 Hazard Categories	See section 2 for more information

### CWA (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 65This product does not contain any Proposition 65 chemicals

#### U.S. State Right-to-Know Regulations

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	N

## **U.S. Department of Homeland Security**

This product does not contain any DHS chemicals.

## Other International Regulations

No information available

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 17-Jan-2018 17-Jan-2018 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 in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text

# End of SDS