

# **Material Safety Data Sheet**

Creation Date 25-Jan-2010

Revision Date 25-Jan-2010

**Revision Number 1** 

### PRODUCT AND COMPANY IDENTIFICATION

**Product Name** Buffer Solution pH 6.00

Cat No. SB104-1; SB104-20; SB104-500

**Synonyms** (Certified)

**Recommended Use** Laboratory chemicals

Company **Emergency Telephone Number** Fisher Scientific CHEMTREC®, Inside the USA: 800-One Reagent Lane 424-9300

Fair Lawn, NJ 07410 CHEMTREC®, Outside the USA: 703-

Tel: (201) 796-7100 527-3887

### 2. HAZARDS IDENTIFICATION

CAUTION!

**Emergency Overview** 

May cause eye, skin, and respiratory tract irritation.

Appearance Clear Physical State Liquid odor odorless

**Target Organs** None known.

**Potential Health Effects** 

**Acute Effects** 

**Principle Routes of Exposure** 

**Eyes** May cause irritation Skin May cause irritation

Inhalation May cause irritation of respiratory tract

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea Ingestion

**Chronic Effects** None known.

See Section 11 for additional Toxicological information.

**Aggravated Medical Conditions** No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Haz/Non-haz

Component	CAS-No	Weight %
Water	7732-18-5	99.27
Dihydrogen potassium phosphate	7778-77-0	0.7
Sodium hydroxide	1310-73-2	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.

Notes to Physician Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

Flash Point Not applicable

Method No information available.

**Autoignition Temperature** 

**Explosion Limits** 

Upper No data available
Lower No data available

Substance is nonflammable; use agent most appropriate to

extinguish surrounding fire..

No information available.

Unsuitable Extinguishing Media No information available.

Hazardous Combustion Products

No information available.

Sensitivity to mechanical impact
Sensitivity to static discharge
No information available.
No information available.

**Specific Hazards Arising from the Chemical** 

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 0 Instability 0 Physical hazards 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.

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

Up

### 7. HANDLING AND STORAGE

Handling Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin,

eyes and clothing. Do not breathe vapors or spray mist.

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

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and **Engineering Measures** 

safety showers are close to the workstation location.

**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	Ceilina: 2 ma/m <sup>3</sup>	Peak: 2 mg/m <sup>3</sup>	CEV: 2 mg/m <sup>3</sup>

NIOSH IDLH: Immediately Dangerous to Life or Health

**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

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

**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

### 9. PHYSICAL AND CHEMICAL PROPERTIES

6.00

Liquid **Physical State Appearance** Clear odor odorless

**Odor Threshold** No information available.

Vapor Pressure No information available. **Vapor Density** 0.7

**Viscosity** No information available. **Boiling Point/Range** 100°C / 212°F **Melting Point/Range** 0°C / 32°F

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Decomposition temperature °C No information available.

Flash Point Not applicable

Evaporation Rate
Specific Gravity
No information available.
Solubility
Soluble in water
No data available

### 10. STABILITY AND REACTIVITY

Stability Stable under normal conditions.

Conditions to Avoid Excess heat.

Hazardous Decomposition Products None known

Hazardous Polymerization Hazardous polymerization does not occur

Hazardous Reactions . None under normal processing.

# 11. TOXICOLOGICAL INFORMATION

None known

### **Acute Toxicity**

Product Information No acute toxicity information is available for this product

**Component Information** 

**Incompatible Materials** 

Component	LD50 Oral LD50 Dermal		LC50 Inhalation
Water	90 mL/kg (Rat)	Not listed	Not listed
Dihydrogen potassium phosphate	1700 mg/kg ( Mouse )	4640 mg/kg (Rabbit)	Not listed
Sodium hydroxide	Not listed	1350 mg/kg (Rabbit)	Not listed

**Irritation** No information available.

**Toxicologically Synergistic** 

**Products** 

No information available.

**Chronic Toxicity** 

**Carcinogenicity** There are no known carcinogenic chemicals in this product

SensitizationNo information available.Mutagenic EffectsNo information available.Reproductive EffectsNo information available.Developmental EffectsNo information available.

**Teratogenicity** No information available.

Other Adverse Effects The toxicological properties have not been fully investigated.. See actual entry in RTECS for

complete information.

**Endocrine Disruptor Information** No information available

# 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Do not empty into drains.

Persistence and Degradability

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	<b>EINECS</b>	ELINCS	NLP	PICCS	<b>ENCS</b>	AICS	CHINA	KECL
Water	Х	X	-	231-791-	-		Х	-	Χ	X	KE-
				2							35400
											X

		15. R	REGUL	<b>ATORY</b>	INFO	RMATI	ON				
Dihydrogen potassium phosphate	Х	Х	-	231-913- 4	-		Х	Х	Х	Х	KE- 28622 X
Sodium hydroxide	Х	X	-	215-185- 5	-		Х	X	X	X	KE- 31487 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 HazardNoChronic Health HazardNoFire HazardNoSudden Release of Pressure HazardNoReactive HazardNo

### **Clean Water Act**

Component	CWA - Hazardous Substances	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants
Sodium hydroxide	X	1000 lb	-	-

#### Clean Air Act

Not applicable

#### **OSHA**

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 chemicals.

#### State Right-to-Know

Component	Massachusetts	New Jersey Pennsylvania		Illinois	Rhode Island	
Sodium hydroxide	X	X	Χ	=	X	

### **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

### **16. OTHER INFORMATION**

Prepared By Regulatory Affairs

Thermo Fisher Scientific Tel: (412) 490-8929

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Revision Summary "\*\*\*", and red text indicates revision

#### 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.

Thermo Fisher Scientific - Buffer Solution pH 6.0	)0
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**End of MSDS**