

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/09/2013 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Mixture Product name : Buffer Solution pH 11.00 Product code : LC12540 1.2. Relevant identified uses of the substance or mixture and uses advised against Use of the substance/mixture : For laboratory and manufacturing use only. 1.3. Details of the supplier of the safety data sheet LabChem Inc Jackson's Pointe Commerce Park Building 1000, 1010 Jackson's Pointe Court Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com 1.4. **Emergency telephone number** Emergency number : CHEMTREC: 1-800-424-9300 or 011-703-527-3887 SECTION 2: Hazards identification 2.1. **Classification of the substance or mixture GHS-US classification** Not classified 2.2. Label elements **GHS-US** labelling No labelling applicable **Other hazards** 2.3. Other hazards not contributing to the : None. classification Unknown acute toxicity (GHS-US) 2.4. No data available **SECTION 3: Composition/information on ingredients** 3.1. Substance Not applicable Full text of H-phrases: see section 16 3.2. **Mixture Product identifier GHS-US classification** Name % Water (CAS No) 7732-18-5 99.64 Not classified Sodium Phosphate, Dibasic, Anhydrous (CAS No) 7558-79-4 0.35 Eye Irrit. 2B, H320 Sodium Hydroxide (CAS No) 1310-73-2 0.01 Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402 **SECTION 4: First aid measures** 4.1. **Description of first aid measures** First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). First-aid measures after inhalation Assure fresh air breathing. Allow the victim to rest. First-aid measures after skin contact Remove affected clothing and wash all exposed skin area with mild soap and water, followed by

First-aid measures after eye contact

persist.

warm water rinse.

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

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First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
I.2. Most important symptoms and e	ffects, both acute and delayed
Symptoms/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
.3. Indication of any immediate med	ical attention and special treatment needed
lo additional information available	
SECTION 5: Firefighting measure	S
5.1. Extinguishing media	
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Insuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	substance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release m	easures
	equipment and emergency procedures
5.1.1. For non-emergency personnel	
Protective equipment	: Safety glasses. Gloves.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
	otify authorities if liquid enters sewers or public waters.
5.3. Methods and material for contain Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect
	spillage. Store away from other materials.
.4. Reference to other sections	
See Heading 8. Exposure controls and perso	nal protection.
SECTION 7: Handling and storage	•
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.
Hygiene measures	: Wash contaminated clothing before reuse.
7.2. Conditions for safe storage, incl	uding any incompatibilities
Storage conditions	: Keep container closed when not in use.
ncompatible products	: Strong oxidizers. silver nitrate. Strong acids.
ncompatible products	: incompatible materials.
7.3. Specific end use(s)	

No additional information available

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Sodium Hydroxide (1310-73-2)		
USA ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m <sup>3</sup>
USA OSHA	OSHA PEL (TWA) (mg/m³)	2 mg/m <sup>3</sup>

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8.2.	Exposure controls		
Approp	riate engineering controls	Provide adequate general and local exhaust ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.	
Person	al protective equipment	: Avoid all unnecessary exposure.	
Hand p	rotection	: Wear protective gloves.	
Eye pro	otection	: Chemical goggles or safety glasses.	
Respira	tory protection	: None necessary.	
Other in	nformation	: Do not eat, drink or smoke during use.	

### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid
Colour	: Colourless.
Odour	: None.
Odour threshold	: No data available
рН	: 11
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1 g/ml
Solubility	: Miscible with water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Not applicable.
Oxidising properties	: None.
Explosive limits	: No data available
0.0 Others information	

### 9.2. **Other information**

No additional information available

SECTION 10: Stability and reactivity		
10.1. Reactivity		
No additional information available		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactions		
Not established.		
10.4. Conditions to avoid		
Incompatible materials. Extremely high or low temperatures.		
10.5. Incompatible materials		
silver nitrate. Strong oxidizers. Strong acids.		
10.6. Hazardous decomposition products		
Phosphine. Phosphorus oxides. Phosgene.		

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SECT	ION 11: Toxicological information	-		
11.1.	Information on toxicological effects			

### Acute toxicity

: Not classified

Sodium Phosphate, Dibasic, Anhydrous (7558-79-4)		
LD50 oral rat	5950 mg/kg	
LD50 dermal rabbit	≥ 7940 mg/kg	
Water (7732-18-5)		
LD50 oral rat	≥ 90000 mg/kg	
Sodium Hydroxide (1310-73-2)		
LD50 dermal rabbit	1350 mg/kg (Rabbit; Literature, Rabbit; Literature)	
Skin corrosion/irritation	: Not classified	
	pH: 11	
Serious eye damage/irritation	: Not classified	
	pH: 11	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity (single exposure)	: Not classified	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.	

### **SECTION 12: Ecological information**

12.1. Toxicity

Sodium Phosphate, Dibasic, Anhydrous	(7558-79-4)	
LC50 fishes 1	≥ 100 mg/l	
EC50 Daphnia 1	≥ 100 mg/l	
Sodium Hydroxide (1310-73-2)		
LC50 fishes 1	45.4 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Solution >=50%)	
EC50 Daphnia 1	40.4 mg/l (48 h; Ceriodaphnia sp.; Nominal concentration)	
LC50 fish 2	189 mg/l (48 h; Leuciscus idus)	
TLM fish 1	99 mg/l (48 h; Lepomis macrochirus)	
TLM fish 2	125 ppm (96 h; Gambusia affinis)	
2.2. Persistence and degradability Buffer Solution pH 11.00		
Persistence and degradability Not established.		
Water (7732-18-5)		
Persistence and degradability	Not established.	
Sodium Hydroxide (1310-73-2)		
Persistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	

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12.3. Bioaccumulative potential		
Buffer Solution pH 11.00		
Bioaccumulative potential	Not established.	
Water (7732-18-5)		
Bioaccumulative potential	Not established.	
Sodium Hydroxide (1310-73-2)	·	
Bioaccumulative potential	Bioaccumulation: not applicable.	
12.4. Mobility in soil No additional information available		
12.5. Other adverse effects		
Other information	: Avoid release to the environment.	
SECTION 13: Disposal consideration	S	
13.1. Waste treatment methods		
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.	
Ecology - waste materials	: Avoid release to the environment.	
SECTION 14: Transport information		
In accordance with DOT		
No dangerous good in sense of transport regulation	ons	
Additional information	. No sum dans autom da famo atta a su dia bia	
Other information	: No supplementary information available.	
ADR		
Transport document description	:	
Transport by sea		
No additional information available		
Air transport		
No additional information available		
SECTION 15: Regulatory information		
15.1. US Federal regulations		
Water (7732-18-5)		
Listed on the United States TSCA (Toxic Substa	inces Control Act) Inventory	
Sodium Hydroxide (1310-73-2)		
Listed on the United States TSCA (Toxic Substa		
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	1000 lb	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
15.2. International regulations		
CANADA		
Buffer Solution pH 11.00		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
Water (7732-18-5)		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
Sodium Hydroxide (1310-73-2)		
Listed on the Canadian DSL (Domestic Sustances List) inventory.		
WHMIS Classification	Class E - Corrosive Material	

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### **EU-Regulations**

No additional information available

### Classification according to Regulation (EC) No. 1272/2008 [CLP]

### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

15.2.2. National regulations

### Sodium Hydroxide (1310-73-2)

Listed on the Canadian Ingredient Disclosure List

### 15.3. US State regulations

No additional information available

### SECTION 16: Other information

Other information

: None.

Full text of H-phrases: see section 16:

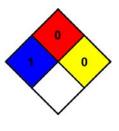
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Aquatic Acute 3	Hazardous to the aquatic environment — AcuteHazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2B	Serious eye damage/eye irritation, Category 2B
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H320	Causes eye irritation
H402	Harmful to aquatic life

### NFPA health hazard

NFPA fire hazard

NFPA reactivity

- : 1 Exposure could cause irritation but only minor residual injury even if no treatment is given.
- : 0 Materials that will not burn.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: B

SDS US (GHS HazCom 2012)

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