

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 12/05/2013 Version: 1.0

	substance/mixture and of the com	ipany/undertaki	ng
1.1. Product identifier	• <i>.</i>		
Product form	: Mixture		
Product name	: Buffer Solution pH 7.38		
Product code	: LC12400		
1.2. Relevant identified uses of the s	substance or mixture and uses advised ag	jainst	
Use of the substance/mixture	: For laboratory and manufacturing us	e only.	
1.3. Details of the supplier of the sa	iety data sheet		
LabChem Inc Jackson's Pointe Commerce Park Building 1 Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 info@labchem.com - www.labchem.com	000, 1010 Jackson's Pointe Court		
1.4. Emergency telephone number			
Emergency number	: CHEMTREC: 1-800-424-9300 or 01	1-703-527-3887	
SECTION 2: Hazards identification	n		
2.1. Classification of the substance			
GHS-US classification			
Not classified			
2.2. Label elements			
GHS-US labelling			
No labelling applicable			
2.3. Other hazards			
Other hazards not contributing to the	: None.		
classification			
2.4. Unknown acute toxicity (GHS-U	S)		
No data available			
SECTION 3: Composition/information	ation on ingredients		
3.1. Substance			
Not applicable			
Full text of H-phrases: see section 16			
3.2. Mixture			
Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	99.22	Not classified
Potassium Phosphate, Monobasic	(CAS No) 7778-77-0	0.68	Not classified
Sodium Hydroxide	(CAS No) 1310-73-2	0.1	Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402
SECTION 4: First aid measures			<u></u>
4.1. Description of first aid measure	S		
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).	vialize to a t	
First-aid measures after inhalation	: Assure fresh air breathing. Allow the		
First-aid measures after skin contact	: Remove affected clothing and wash warm water rinse.	all exposed skin area	a with mild soap and water, followed by

First-aid measures after eye contact

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First-aid measures after inge	I. 77, No. 58 / Monday, March 26, 2012 / Rules and Regestion : Rinse mouth. Do NOT in	nduce vomiting. Obtain emergency medical attention.
Ç	ymptoms and effects, both acute and delayed	
Symptoms/injuries		a significant hazard under anticipated conditions of normal use.
I.3. Indication of any	immediate medical attention and special trea	tment needed
No additional information ava		
SECTION 5: Firefighti	ing measures	
5.1. Extinguishing me	dia	
Suitable extinguishing media		oon dioxide. Water spray. Sand.
Unsuitable extinguishing mee	dia : Do not use a heavy wate	er stream.
	arising from the substance or mixture	
No additional information ava		
5.3. Advice for firefigh		
Firefighting instructions	chemical fire. Avoid (reje	or cooling exposed containers. Exercise caution when fighting any ect) fire-fighting water to enter environment.
Protection during firefighting	: Do not enter fire area wit	thout proper protective equipment, including respiratory protection.
SECTION 6: Accident	al release measures	
6.1. Personal precaut	ions, protective equipment and emergency p	rocedures
6.1.1. For non-emergen		
Protective equipment	Safety glasses.	
Emergency procedures	: Evacuate unnecessary p	personnel.
6.1.2. For emergency re		
Protective equipment	: Equip cleanup crew with	proper protection.
Emergency procedures	: Ventilate area.	
6.2. Environmental pr	recautions public waters. Notify authorities if liquid enters so	ewers or public waters
-		
6.3. Methods and mat Methods for cleaning up	terial for containment and cleaning up	solids, such as clay or diatomaceous earth as soon as possible. Collect
victious for cleaning up	spillage. Store away from	
	er sections	
6.4. Reference to othe		
	ontrols and personal protection.	
See Heading 8. Exposure co SECTION 7: Handling		
See Heading 8. Exposure co SECTION 7: Handling 7.1. Precautions for s	and storage	
See Heading 8. Exposure co SECTION 7: Handling 7.1. Precautions for s	g and storage afe handling g : Wash hands and other e	exposed areas with mild soap and water before eating, drinking or ng work. Provide good ventilation in process area to prevent formation of
See Heading 8. Exposure co SECTION 7: Handling 7.1. Precautions for se Precautions for safe handling 7.2. Conditions for sa	g : Wash hands and other e smoking and when leaving	
See Heading 8. Exposure co SECTION 7: Handling 7.1. Precautions for s Precautions for safe handling 7.2. Conditions for sa Storage conditions	and storage afe handling g : Wash hands and other e smoking and when leaving vapour. afe storage, including any incompatibilities : Keep container closed w	ng work. Provide good ventilation in process area to prevent formation of
See Heading 8. Exposure co SECTION 7: Handling 7.1. Precautions for s Precautions for safe handling 7.2. Conditions for sa Storage conditions ncompatible products	and storage afe handling g : Wash hands and other e smoking and when leaving vapour. afe storage, including any incompatibilities : Keep container closed w : Strong oxidizers.	ng work. Provide good ventilation in process area to prevent formation of
See Heading 8. Exposure co SECTION 7: Handling 7.1. Precautions for se Precautions for safe handling 7.2. Conditions for sa Storage conditions ncompatible products ncompatible products	and storage afe handling g : Wash hands and other e smoking and when leaving vapour. afe storage, including any incompatibilities : Keep container closed w : Strong oxidizers. : None known.	ng work. Provide good ventilation in process area to prevent formation of
See Heading 8. Exposure co SECTION 7: Handling 7.1. Precautions for se Precautions for safe handling 7.2. Conditions for sa Storage conditions ncompatible products ncompatible products 7.3. Specific end use(and storage afe handling g : Wash hands and other e smoking and when leaving vapour. afe storage, including any incompatibilities : Keep container closed w : Strong oxidizers. : None known. (s)	ng work. Provide good ventilation in process area to prevent formation of
See Heading 8. Exposure co SECTION 7: Handling 7.1. Precautions for se Precautions for safe handling 7.2. Conditions for sa Storage conditions ncompatible products ncompatible products 7.3. Specific end use(No additional information available	and storage afe handling g f g f S afe thandling g f f S afe storage, including any incompatibilities f S afe storage, including any in	ng work. Provide good ventilation in process area to prevent formation of
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See Heading 8. Exposure co SECTION 7: Handling 7.1. Precautions for sa Precautions for safe handling 7.2. Conditions for sa Storage conditions ncompatible products 7.3. Specific end use(No additional information ava SECTION 8: Exposure 8.1. Control paramete	and storage afe handling g : Wash hands and other e smoking and when leavin vapour. fe storage, including any incompatibilities : Keep container closed w : Strong oxidizers. : None known. (s) ailable e controls/personal protection ers	ng work. Provide good ventilation in process area to prevent formation of
See Heading 8. Exposure co SECTION 7: Handling 7.1. Precautions for se Precautions for safe handling 7.2. Conditions for sa Storage conditions Incompatible products Incompatible products 7.3. Specific end use(No additional information ava SECTION 8: Exposure	and storage afe handling g : Wash hands and other e smoking and when leavin vapour. fe storage, including any incompatibilities : Keep container closed w : Strong oxidizers. : None known. (s) ailable e controls/personal protection ers	ng work. Provide good ventilation in process area to prevent formation of

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation.

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: Avoid all unnecessary exposure.
: Wear protective gloves.
: Chemical goggles or safety glasses.
: None necessary.
: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	chemical properties
Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Colour	: Colourless.
Odour	: None.
Odour threshold	: No data available
рН	: 7.38
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
Solubility	: Soluble in water.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

Other information 9.2.

No additional information available

SECTIO	ON 10: Stability and reactivity
10.1.	Reactivity
No additi	onal information available
10.2.	Chemical stability
Stable ur	nder normal conditions.
10.3.	Possibility of hazardous reactions
Not estat	blished.
10.4.	Conditions to avoid
None und	der recommended storage and handling conditions (see section 7).
10.5.	Incompatible materials
Strong ox	xidizers.
10.6.	Hazardous decomposition products
	rus oxides. Sodium oxide.
SECTION	ON 11: Toxicological information
11.1.	Information on toxicological effects

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Acute toxicity	: Not classified	
Potassium Phosphate, Monobasic (7778-77-0)		
LD50 dermal rabbit	4640 mg/kg	
Sodium Hydroxide (1310-73-2)		
LD50 dermal rabbit	1350 mg/kg (Rabbit; Literature, Rabbit; Literature)	
Water (7732-18-5)		
LD50 oral rat	≥ 90000 mg/kg	
Skin corrosion/irritation	: Not classified	
	pH: 7.38	
Serious eye damage/irritation	: Not classified	
	рН: 7.38	
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.	

SECT	TON 12: Ecological information
12.1.	Toxicity

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)	

12.2. Persistence and degradability

· · · · · · · · · · · · · · · · · · ·		
Buffer Solution pH 7.38		
Persistence and degradability	Not established.	
Potassium Phosphate, Monobasic (7778-77-0)		
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	
Water (7732-18-5)		
Persistence and degradability	Not established.	
12.3. Bioaccumulative potential		
Buffer Solution pH 7.38		
Bioaccumulative potential	Not established.	
Potassium Phosphate, Monobasic (7778-77-0)		
Bioaccumulative potential	Not established.	

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Sodium Hydroxide (1310-73-2)	
Bioaccumulative potential	Bioaccumulation: not applicable.
Water (7732-18-5)	
Bioaccumulative potential	Not established.
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	A set of a set of the
Other information	: Avoid release to the environment.
SECTION 13: Disposal considerations	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	
SECTION 14: Transport information	
In accordance with DOT	
No dangerous good in sense of transport regulation Additional information	оло
	: No supplementary information available.
	. No supplementary mormation available.
100	
ADR	
Transport document description	:
Transport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Pogulatory information	
SECTION 15: Regulatory information	
SECTION 15: Regulatory information 15.1. US Federal regulations	
15.1. US Federal regulations Potassium Phosphate, Monobasic (7778-77-0	· · · · · · · · · · · · · · · · · · ·
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15.1. US Federal regulations Potassium Phosphate, Monobasic (7778-77-0 Listed on the United States TSCA (Toxic Substa Sodium Hydroxide (1310-73-2) Listed on the United States TSCA (Toxic Substa RQ (Reportable quantity, section 304 of EPA's List of Lists) : SARA Section 311/312 Hazard Classes	nces Control Act) inventory
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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

Potassium Phos	phate, Monobasic (7778-77-0)
Not listed on the C	Canadian Ingredient Disclosure List
Sodium Hydroxic	de (1310-73-2)
Listed on the Cana	adian 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:

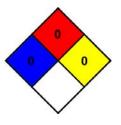
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Aquatic Acute 3	Hazardous to the aquatic environment — AcuteHazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H312	Harmful in contact with skin
H314	Causes severe skin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

NFPA health hazard

: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard NFPA reactivity

- : 0 Materials that will not burn.
- : 0 Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health	:	0 Minimal Hazard - No significant risk to health
Flammability	:	0 Minimal Hazard
Physical	:	0 Minimal Hazard
Personal Protection	:	A

SDS US (GHS HazCom 2012)

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and LabChem Inc assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his application.