

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

SECTION 4. Identification of the	whatan as limiture and of the sam		
SECTION 1: Identification of the s	ubstance/mixture and of the com	ipany/undertaki	ng
1.1. Product identifier			
Product form	: Mixture		
Product name	: Buffer Solution pH 7.40		
Product code	: LC12390		
.2. Relevant identified uses of the s	ubstance or mixture and uses advised ag	jainst	
Jse of the substance/mixture	: For laboratory and manufacturing us	e only.	
I.3. Details of the supplier of the safe	ety data sheet		
_abChem Inc Jackson's Pointe Commerce Park Building 1 Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 <u>nfo@labchem.com</u> - <u>www.labchem.com</u>	000, 1010 Jackson's Pointe Court		
1.4. Emergency telephone number			
Emergency number	: CHEMTREC: 1-800-424-9300 or 017	1-703-527-3887	
SECTION 2: Hazards identification	n		
2.1. Classification of the substance of	or mixture		
GHS-US classification			
Not classified			
2.2. Label elements			
GHS-US labelling			
No labelling applicable			
.3. Other hazards			
Other hazards not contributing to the	: None.		
lassification			
.4. Unknown acute toxicity (GHS-US	š)		
o data available			
ECTION 3: Composition/informa	tion on ingredients		
1. Substance			
Not applicable			
ull text of H-phrases: see section 16			
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			
.1. Description of first aid measures	ŝ		
First-aid measures general	: Never give anything by mouth to an (show the label where possible).	unconscious person.	If you feel unwell, seek medical a
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		with mild soan and water follow
แจเ-ฉเน การสอนเรอ ลกระ 3NII เป็นใส่งเ	warm water rinse.	an exposed skill died	with third soap and water, 1010W
irst-aid measures after eve contact	· Pinso immodiately with plonty of wat	or Obtain modical at	tantion if nain, blinking or radness

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First-alu	measures after ingestior	1 : Rinse mouth. Do NOT in	duce vomiting. Obtain emergency medical attention.
4.2.	Most important symp	toms and effects, both acute and delayed	1
Sympton	ns/injuries	: Not expected to present	a significant hazard under anticipated conditions of normal use.
.3.	Indication of any imm	nediate medical attention and special treat	tment needed
No addit	ional information availab	le	
SECTI	ON 5: Firefighting	measures	
5.1.	Extinguishing media		
Suitable	extinguishing media	: Foam. Dry powder. Carb	on dioxide. Water spray. Sand.
Jnsuitab	le extinguishing media	: Do not use a heavy wate	r stream.
5.2 .	Special hazards arisi	ng from the substance or mixture	
lo addit	ional information availab		
5.3 .	Advice for firefighters	\$	
irefighti	ing instructions	: Use water spray or fog fo	or cooling exposed containers. Exercise caution when fighting any cct) fire-fighting water to enter environment.
rotectio	on during firefighting	: Do not enter fire area wit	thout proper protective equipment, including respiratory protection.
SECTI	ON 6: Accidental r	elease measures	an a
6.1.		, protective equipment and emergency pr	rocedures
6.1.1.	For non-emergency p	ersonnel	
Protectiv	e equipment	: Safety glasses.	
Emerger	ncy procedures	: Evacuate unnecessary p	ersonnel.
5.1.2.	For emergency respo	nders	
	ve equipment	: Equip cleanup crew with	proper protection
	ncy procedures	: Ventilate area.	P . P . P
6.2.	Environmental preca	utions	
Prevent		lic waters. Notify authorities if liquid enters se	ewers or public waters.
6.3.	Methods and materia	I for containment and cleaning up	
Methods	for cleaning up	• •	solids, such as clay or diatomaceous earth as soon as possible. Collect n other materials.
6.4.	Reference to other se	ctions	
See Hea	iding 8. Exposure contro	ls and personal protection.	
SECTI	ON 7: Handling an	d storage	
7.1.	Precautions for safe I	nandling	
Precautio	ons for safe handling		xposed areas with mild soap and water before eating, drinking or ng work. Provide good ventilation in process area to prevent formation of
7.2.		torage, including any incompatibilities	
-	conditions	: Keep container closed w	hen not in use.
	tible products	: Strong oxidizers.	
	tible products	: None known.	
	Specific end use(s)	le	
.3.	ional information availab		
7.3. No additi		ontrols/personal protection	
7.3. No additi SECTI			
7.3. No addit SECTI 3.1.	ON 8: Exposure co Control parameters	ontrols/personal protection	
7.3. No addit SECTI 3.1.	ON 8: Exposure co Control parameters n Hydroxide (1310-73-2	ontrols/personal protection	2 mg/m³

Appropriate engineering controls

: Provide adequate general and local exhaust ventilation.

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Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or safety glasses.
Respiratory protection	: None necessary.
Other information	: 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	: 7.4
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	DN 10: Stability and reactivity
10.1.	Reactivity
No additi	onal information available
10.2.	Chemical stability
Stable ur	der normal conditions.
10.3.	Possibility of hazardous reactions
Not estat	lished.
10.4.	Conditions to avoid
None und	er 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	DN 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
	рН: 7.4
Serious eye damage/irritation	: Not classified
	pH: 7.4
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	ION	12:	Ecological information

12.1	Tox	icity

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 7.40		
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 7.40		
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	
Other information	: Avoid release to the environment.
SECTION 13: Disposal considerations	3
13.1. Waste treatment methods	
	: Dispose in a safe manner in accordance with local/national regulations.
	: Avoid release to the environment.
SECTION 14: Transport information	
In accordance with DOT	
No dangerous good in sense of transport regulation	ons
Additional information	
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	
Potassium Phosphate, Monobasic (7778-77-0	
Listed on the United States TSCA (Toxic Substa	
Sodium Hydroxide (1310-73-2)	nces Control Act) inventory
Sodium Hydroxide (1310-73-2) Listed on the United States TSCA (Toxic Substa	nces Control Act) inventory
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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 nces Control Act) inventory 1000 lb Immediate (acute) health hazard
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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:

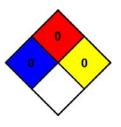
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Aquatic Acute 3	Hazardous to the aguatic environment — AcuteHazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
H312	Harmful in contact with skin
H314	Causes severe skin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

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