

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 1: Identification of the s	ubstance/mixture and of the cor	npany/undertaki	ng
.1. Product identifier			
Product form	: Mixture		
roduct name	: Buffer Solution pH 6.86		
roduct code	: LC12350		
.2. Relevant identified uses of the su	Ibstance or mixture and uses advised a	nainst	
se of the substance/mixture	: For laboratory and manufacturing u		
	, ,	se only.	
.3. Details of the supplier of the safe	ty data sheet		
abChem Inc ackson's Pointe Commerce Park Building 10 elienople, PA 16063 - USA ' 412-826-5230 - F 724-473-0647 nfo@labchem.com - www.labchem.com	00, 1010 Jackson's Pointe Court		
.4. Emergency telephone number			
mergency number	: CHEMTREC: 1-800-424-9300 or 01	1-703-527-3887	
ECTION 2: Hazards identification	1		
.1. Classification of the substance o	r mixture		
HS-US classification			
lot classified			
2. Label elements			
HS-US labelling			
lo labelling applicable			
.3. Other hazards			
ther hazards not contributing to the	: None.		
assification			
.4. Unknown acute toxicity (GHS-US	)		
o data available			
ECTION 3: Composition/information	tion on ingredients		
1. Substance			
ot applicable			
ull text of H-phrases: see section 16			
2. Mixture		· · · · · · · · · · · · · · · · · · ·	
Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	99.25	Not classified
Potassium Phosphate, Monobasic	(CAS No) 7778-77-0	0.68	Not classified
Sodium Hydroxide	(CAS No) 1310-73-2	0.07	Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314
			Eye Dam. 1, H318
		I	Aquatic Acute 3, H402
ECTION 4: First aid measures			
1. Description of first aid measures			
irst-aid measures general	: Never give anything by mouth to an (show the label where possible).	unconscious person.	If you feel unwell, seek medical advice
irst-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			
	warm water rinse.		

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

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persist.

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	ingestion : Rinse mo	uth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most importa	nt symptoms and effects, both acu	te and delayed
Symptoms/injuries	: Not expe	cted to present a significant hazard under anticipated conditions of normal use.
1.3. Indication of a	any immediate medical attention an	d special treatment needed
No additional informatior	ı available	
SECTION 5: Firefig	hting measures	
5.1. Extinguishing		
Suitable extinguishing m	edia : Foam. Dr	y powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing	media : Do not us	e a heavy water stream.
5.2. Special hazar	ds arising from the substance or m	ixture
No additional information	available	
5.3. Advice for fire	fighters	
Firefighting instructions		r spray or fog for cooling exposed containers. Exercise caution when fighting any fire. Prevent fire-fighting water from entering environment.
Protection during firefigh	ting : Do not en	ter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accid	ental release measures	
6.1. Personal pred	autions, protective equipment and	emergency procedures
6.1.1. For non-emer	gency personnel	
Protective equipment	: Safety gla	ISSES.
Emergency procedures	: Evacuate	unnecessary personnel.
6.1.2. For emergend	y responders	
Protective equipment		anup crew with proper protection.
Emergency procedures	: Ventilate	area.
6.2. Environmenta	al precautions	
Prevent entry to sewers	and public waters. Notify authorities if	liquid enters sewers or public waters.
6.3. Methods and	material for containment and clean	ing up
Methods for cleaning up	: Soak up s spillage.	spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect Store away from other materials.
6.4. Reference to	other sections	
0.4. Reference to	e controls and personal protection.	
See Heading 8. Exposur SECTION 7: Handl		
See Heading 8. Exposur SECTION 7: Handl	ing and storage or safe handling dling Wash har	nds and other exposed areas with mild soap and water before eating, drinking or and when leaving work. Provide good ventilation in process area to prevent formation of
See Heading 8. Exposur SECTION 7: Handl 7.1. Precautions for Precautions for safe han 7.2. Conditions for	ing and storage or safe handling dling Wash har smoking a vapour. r safe storage, including any incon	and when leaving work. Provide good ventilation in process area to prevent formation of npatibilities
See Heading 8. Exposur SECTION 7: Handl 7.1. Precautions for Precautions for safe han 7.2. Conditions for Storage conditions	ing and storage or safe handling dling Wash har smoking a vapour. r safe storage, including any incom	and when leaving work. Provide good ventilation in process area to prevent formation of <b>apatibilities</b> tainer closed when not in use.
See Heading 8. Exposur SECTION 7: Handl 7.1. Precautions for Precautions for safe han 7.2. Conditions for Storage conditions Incompatible products	ing and storage or safe handling dling : Wash har smoking a vapour. r safe storage, including any incon : Keep con : Strong ox	and when leaving work. Provide good ventilation in process area to prevent formation of <b>npatibilities</b> tainer closed when not in use. idizers.
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See Heading 8. Exposur SECTION 7: Handl 7.1. Precautions for Precautions for safe han 7.2. Conditions for Storage conditions Incompatible products Incompatible materials 7.3. Specific end to No additional information SECTION 8: Expos 8.1. Control param	ing and storage or safe handling dling : Wash har smoking a vapour. r safe storage, including any incom : Keep con : Strong ox : None kno use(s) n available sure controls/personal prote neters	and when leaving work. Provide good ventilation in process area to prevent formation of <b>npatibilities</b> tainer closed when not in use. tidizers. wn.

## 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.
Eye protection Respiratory protection	<ul><li>Chemical goggles or safety glasses.</li><li>None necessary.</li></ul>

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

9.1. Information on basic physical and	d chei	mical properties
Physical state	:	Liquid
Appearance	:	Clear, colorless liquid.
Colour	:	Colourless.
Odour	:	None.
Odour threshold	:	No data available
рН	:	6.86
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	:	Not applicable.
Oxidising properties	:	None.
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: 6.86		
Serious eye damage/irritation	: Not classified		
	pH: 6.86		
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	<b>TON 12: Ecological information</b>
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 6.86		
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.	
2.3. Bioaccumulative potential		
Buffer Solution pH 6.86		
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 consideration	ns	
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.	
<b>SECTION 14: Transport information</b>		
In accordance with DOT		
No dangerous good in sense of transport regula	tions	
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 informatio	n	
15.1. US Federal regulations		
Potassium Phosphate, Monobasic (7778-77 Listed on the United States TSCA (Toxic Subs		
Sodium Hydroxide (1310-73-2)	teners Carter Act in contary	
Listed on the United States TSCA (Toxic Subs RQ (Reportable quantity, section 304 of EPA's		
List of Lists) :		
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard	
Water (7732-18-5)		
Listed on the United States TSCA (Toxic Subs	stances Control Act) inventory	
15.2. International regulations		
CANADA Buffer Solution pH 6.86		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
Potassium Phosphate, Monobasic (7778-77	•	
Listed on the Canadian DSL (Domestic Sustan WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
Sodium Hydroxide (1310-73-2)		
Listed on the Canadian DSL (Domestic Sustan WHMIS Classification	Class E - Corrosive Material	
Water (7732-18-5)		
Listed on the Canadian DSL (Domestic Susta		
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Water (7732-18-5)	
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria
EU-Regulations	
No additional information available	
Classification according to Regulation (	EC) No. 1272/2008 [CLP]
Classification according to Regulation (	EC) No. 1272/2008 [CLP]
Classification according to Directive 67/	
Classification according to Regulation (I Classification according to Directive 67/ Not classified	
Classification according to Directive 67/	

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

Listed on the Canadian Ingredient Disclosure List

### Water (7732-18-5)

Not 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
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

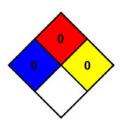
: 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

: 0 - Materials that will not burn.

NFPA fire hazard NFPA reactivity

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

: 0 Minimal Hazard - No significant risk to health



### **HMIS III Rating**

Health	
Flammability	
Physical	
Personal Protection	

SDS US (GHS HazCom 2012)

: A

: 0 Minimal Hazard: 0 Minimal Hazard

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