

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	substance/mixture and of the com	npany/undertaki	ng
.1. Product identifier			
Product form	: Mixture		
Product name	: Buffer Solution pH 7.70		
Product code	: LC12410		
Delevent identified upon of the	outotones or mixture and uses advised as	einet	
	substance or mixture and uses advised ag		
Use of the substance/mixture	: For laboratory and manufacturing us	e only.	
1.3. Details of the supplier of the s	afety data sheet		
LabChem Inc Jackson's Pointe Commerce Park Building Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 nfo@labchem.com - www.labchem.com	1000, 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 identificati	on		
2.1. Classification of the substance	e or mixture		
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 classification	: None.		
2.4. Unknown acute toxicity (GHS-	US)		
No data available			
SECTION 3: Composition/inform	nation on ingredients		
	nation 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	99.21	Not classified
Potassium Phosphate, Monobasic	(CAS No) 7778-77-0	0.68	Not classified
Sodium Hydroxide	(CAS No) 1310-73-2	0.11	Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402
SECTION 4: First aid measures		·	
1.1. Description of first aid measur	28S		
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			a with mild soap and water, followed by
	warm water rinse.		
First-aid measures after eve contact	· Rinse immediately with plenty of wat	er Obtain medical at	tention if nain, blinking or rednoss

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First-aid measu	res after ingestion	: Rinse mouth. Do NOT induce vor	niting. Obtain emergency medical attention.
I.2. Most	important symptoms and e	ffects, both acute and delayed	
Symptoms/injur	ies	: Not expected to present a signific	ant hazard under anticipated conditions of normal use.
I.3. Indic	ation of any immediate med	ical attention and special treatment ne	eeded
No additional in	formation available		
SECTION 5	Firefighting measure	S	
	guishing media	-	
Suitable exting		: Foam. Dry powder. Carbon dioxic	de. Water spray. Sand.
-	nguishing media	: Do not use a heavy water stream	
5.2. Spec	ial hazards arising from the	substance or mixture	
	formation available		
5.3. Advid	ce for firefighters		
Firefighting inst	•		g exposed containers. Exercise caution when fighting any water from entering environment.
Protection durir	ng firefighting		per protective equipment, including respiratory protection.
SECTION 6	Accidental release m	easures	
6.1. Perso	onal precautions, protective	equipment and emergency procedure	25
6.1.1. For n	on-emergency personnel		
Protective equip		: Safety glasses.	
Emergency pro	cedures	: Evacuate unnecessary personnel	l.
5.1.2. For e	mergency responders		
Protective equip	oment	: Equip cleanup crew with proper p	protection.
Emergency pro	cedures	: Ventilate area.	
6.2. Envir	onmental precautions		
Prevent entry to	sewers and public waters. N	otify authorities if liquid enters sewers or	public waters.
S.3. Meth	ods and material for contair	ment and cleaning up	
Methods for cle	aning up	: Soak up spills with inert solids, su spillage. Store away from other m	uch as clay or diatomaceous earth as soon as possible. Collect naterials.
S.4. Refe	ence to other sections		
See Heading 8.	Exposure controls and perso	nal protection.	
SECTION 7	Handling and storage	•	
	autions for safe handling		
Precautions for	safe handling		areas with mild soap and water before eating, drinking or Provide good ventilation in process area to prevent formation of
7.2. Conc	litions for safe storage, incl	uding any incompatibilities	
Storage condition		: Keep container closed when not i	n use.
ncompatible pr		: Strong oxidizers.	
ncompatible m	aterials	: None known.	
	ific end use(s) formation available		
	Exposure controls/pe	ersonal protection	
SECTION 8	rol parameters		
3.1. Cont	oxide (1310-73-2)		
3.1. Cont		ling (mg/m³)	2 mg/m ³

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

Physical state:LiquidAppearance:Clear, colorless liquid.Colour:Colourless.Odour:None.Odour threshold:No data availablepH:7.7Relative evaporation rate (butylacetate=1):No data availablePreezing point:No data availableFreezing point:No data availableBoiling point:No data availableFlash point:No data availableSelf ignition temperature:No data availableDecomposition temperature:No data available
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Self ignition temperature: No data availableDecomposition 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	plished.
10.4.	Conditions to avoid
None une	der recommended storage and handling conditions (see section 7).
10.5.	Incompatible materials
Strong or	xidizers.
10.6.	Hazardous decomposition products
	rus oxides. Sodium oxide.
SECTIO	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
	рН: 7.7
Serious eye damage/irritation	: Not classified
	pH: 7.7
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	. 1	Toxi	cit	У

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 7.70	
Persistence and degradability	Not established.
Potassium Phosphate, Monobasic (7778-7	7-0)
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 7.70	
Bioaccumulative potential	Not established.
Potassium Phosphate, Monobasic (7778-7	7-0)
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	
42.5 Other advance official	
12.5. Other adverse effects Other information	: Avoid release to the environment.
SECTION 13: Disposal consideration	15
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 regulat	ions
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-	•
Listed on the United States TSCA (Toxic Subst	ances Control Act) Inventory
Sodium Hydroxide (1310-73-2)	
Listed on the United States TSCA (Toxic Subst	
RQ (Reportable quantity, section 304 of EPA's List of Lists) :	1000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
Water (7732-18-5)	
Listed on the United States TSCA (Toxic Subst	ances Control Act) inventory
15.2. International regulations	
CANADA	
Buffer Solution pH 7.70	Uncontrolled product according to WHMIS algorithmatics oritoria
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 Sustan	ces List) inventory.
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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 Directive 67/548/EE	C or 1999/45/EC
•	C or 1999/45/EC
Classification according to Directive 67/548/EE Not classified 15.2.2. National regulations	C or 1999/45/EC
Not classified	

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

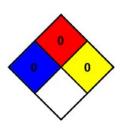
NFPA health hazard

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

NFPA fire hazard NFPA reactivity : 0 - Materials that will not burn.: 0 - Normally stable, even under fire exposure conditions,

: 0 Minimal Hazard - No significant risk to health

and are not reactive with water.



HMIS III Rating

Health
Flammability
Physical
Personal Protection

SDS US (GHS HazCom 2012)

: A

: 0 Minimal Hazard: 0 Minimal Hazard

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