

SECTION 1: Identification of the substance/mixture and of the company/undertaking

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

1.1. Product identifier	substance/mixture and of the company/undertaking
Product form	: Mixture
Product name	: Buffer Solution pH 13.00
Product code	: LC12565
	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 sa	fety data sheet
LabChem Inc Jackson's Pointe Commerce Park Building ' 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	bn
2.1. Classification of the substance	
GHS-US classification Skin Corr. 1C H314 Eye Dam. 1 H318	
2.2. Label elements	
Hazard pictograms (GHS-US)	CHS05
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H314 - Causes severe skin burns and eye damage
Precautionary statements (GHS-US)	 P260 - Do not breathe mist, vapours, spray P264 - Wash exposed skin thoroughly after handling P280 - Wear protective gloves, eye protection P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310 - Immediately call a POISON CENTER or doctor/physician P363 - Wash contaminated clothing before reuse P405 - Store locked up P501 - Dispose of contents/container to comply with local, state and federal regulations
2.3. Other hazards	
Other hazards not contributing to the classification	: None.
2.4. Unknown acute toxicity (GHS-U	S)
No data available	
SECTION 3: Composition/inform	ation on ingredients
3.1. Substance	
Not applicable	
12/09/2013	EN (English) Page 1

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases: see section 16

3.2. **Mixture**

Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	99.24	Not classified
Potassium Chloride	(CAS No) 7447-40-7	0.37	Not classified
Sodium Hydroxide	(CAS No) 1310-73-2	0.34	Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402
Thymol	(CAS No) 89-83-8	0.05	Acute Tox. 4 (Oral), H302 Aquatic Acute 2, H401

SECTION 4: First aid measures

SECTION 4: First aid measures	
4.1. Description of first aid measures	
	e anything by mouth to an unconscious person. If you feel unwell, seek medical advice label where possible).
	sh air breathing. Allow the victim to rest. Remove to fresh air and keep at rest in a pmfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
	ake off immediately all contaminated clothing. Rinse skin with water/shower. ly call a POISON CENTER or doctor/physician.
	tiously with water for several minutes. Remove contact lenses, if present and easy to ue rinsing. Immediately call a POISON CENTER or doctor/physician.
First-aid measures after ingestion : Rinse mo doctor/ph	ith. Do NOT induce vomiting. Immediately call a POISON CENTER or sician.
4.2. Most important symptoms and effects, both acut	e and delayed
Symptoms/injuries : Causes se	evere skin burns and eye damage.
Symptoms/injuries after eye contact : Causes s	rious eye damage.
4.3. Indication of any immediate medical attention an	d special treatment needed
No additional information available	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
	v nowder. Carbon dioxide. Water spray, Sand
	v powder. Carbon dioxide. Water spray. Sand. e a heavy water stream.
. .	·
5.2. Special hazards arising from the substance or m	
	ecomposition generates : Corrosive vapours.
5.3. Advice for firefighters	
	spray or fog for cooling exposed containers. Exercise caution when fighting any ire. Avoid (reject) fire-fighting water to enter environment.
Protection during firefighting : Do not en	er fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release measures	
6.1. Personal precautions, protective equipment and	emergency procedures
6.1.1. For non-emergency personnel	
	sses. Gloves.
	unnecessary personnel.
6.1.2. For emergency responders	in up grow with proper protection
	nup crew with proper protection.
	າເວລ.
6.2. Environmental 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	ng un

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

6.4. **Reference to other sections**

See Heading 8. Exposure controls and personal 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. Do not breathe mist, vapours, spray.
Hygiene measures	: Wash contaminated clothing before reuse. Wash exposed skin thoroughly after handling.
7.2. Conditions for safe storage, including	ng any incompatibilities
Technical measures	: Comply with applicable regulations.
Storage conditions	: Keep container closed when not in use.
Incompatible products	: Strong oxidizers. silver nitrate. Strong acids.
Incompatible products	: incompatible materials.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Exposure controls

8.2.

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

Appropriate 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.
Personal protective equipment	: Avoid all unnecessary exposure.
Hand protection	: Wear protective gloves.
Eye protection	: Chemical goggles or face shield.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: None necessary. Wear appropriate mask.
Other information	: Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical propertie	SECTION 9: Ph	sical and che	emical properties
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9.1. Information on basic physical an	d chemical properties
Physical state	: Liquid
Colour	: Colourless.
Odour	: None.
Odour threshold	: No data available
рН	: 13
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
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Buffer Solution pH 13.00 Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Thermal decomposition generates : Corrosive var	pours.
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 tem	nperatures.
10.5. Incompatible materials	
silver nitrate. Strong oxidizers. Strong acids.	
10.6. Hazardous decomposition products	
Phosphine. Phosphorus oxides. Phosgene. Therr	nal decomposition generates : Corrosive vapours. Carbon dioxide. Carbon monoxide.
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity	: Not classified
Water (7732-18-5)	
LD50 oral rat	≥ 90000 mg/kg
Sodium Hydroxide (1310-73-2)	
Sodium Hydroxide (1310-73-2) LD50 dermal rabbit	1350 mg/kg (Rabbit; Literature, Rabbit; Literature)
LD50 dermal rabbit	
	1350 mg/kg (Rabbit; Literature,Rabbit; Literature)
LD50 dermal rabbit Potassium Chloride (7447-40-7) LD50 oral rat	
LD50 dermal rabbit Potassium Chloride (7447-40-7) LD50 oral rat Thymol (89-83-8)	1350 mg/kg (Rabbit; Literature, Rabbit; Literature) 2600 mg/kg
LD50 dermal rabbit Potassium Chloride (7447-40-7) LD50 oral rat Thymol (89-83-8) LD50 oral rat	1350 mg/kg (Rabbit; Literature, Rabbit; Literature) 2600 mg/kg 980 mg/kg (Rat)
LD50 dermal rabbit Potassium Chloride (7447-40-7) LD50 oral rat Thymol (89-83-8)	1350 mg/kg (Rabbit; Literature, Rabbit; Literature) 2600 mg/kg 980 mg/kg (Rat) : Causes severe skin burns and eye damage.
LD50 dermal rabbit Potassium Chloride (7447-40-7) LD50 oral rat Thymol (89-83-8) LD50 oral rat Skin corrosion/irritation	1350 mg/kg (Rabbit; Literature, Rabbit; Literature) 2600 mg/kg 980 mg/kg (Rat) : Causes severe skin burns and eye damage. pH: 13
LD50 dermal rabbit Potassium Chloride (7447-40-7) LD50 oral rat Thymol (89-83-8) LD50 oral rat	1350 mg/kg (Rabbit; Literature, Rabbit; Literature) 2600 mg/kg 980 mg/kg (Rat) : Causes severe skin burns and eye damage. pH: 13 : Causes serious eye damage.
LD50 dermal rabbit Potassium Chloride (7447-40-7) LD50 oral rat Thymol (89-83-8) LD50 oral rat Skin corrosion/irritation Serious eye damage/irritation	1350 mg/kg (Rabbit; Literature, Rabbit; Literature) 2600 mg/kg 980 mg/kg (Rat) • Causes severe skin burns and eye damage. pH: 13 • Causes serious eye damage. pH: 13
LD50 dermal rabbit Potassium Chloride (7447-40-7) LD50 oral rat Thymol (89-83-8) LD50 oral rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation	1350 mg/kg (Rabbit; Literature, Rabbit; Literature) 2600 mg/kg 980 mg/kg (Rat) : Causes severe skin burns and eye damage. pH: 13 : Causes serious eye damage.
LD50 dermal rabbit Potassium Chloride (7447-40-7) LD50 oral rat Thymol (89-83-8) LD50 oral rat Skin corrosion/irritation Serious eye damage/irritation	1350 mg/kg (Rabbit; Literature,Rabbit; Literature) 2600 mg/kg 980 mg/kg (Rat) • Causes severe skin burns and eye damage. pH: 13 • Causes serious eye damage. pH: 13 • Not classified
LD50 dermal rabbit Potassium Chloride (7447-40-7) LD50 oral rat Thymol (89-83-8) LD50 oral rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	1350 mg/kg (Rabbit; Literature, Rabbit; Literature) 2600 mg/kg 980 mg/kg (Rat) Causes severe skin burns and eye damage. pH: 13 Causes serious eye damage. pH: 13 Not classified Not classified Not classified Not classified
LD50 dermal rabbit Potassium Chloride (7447-40-7) LD50 oral rat Thymol (89-83-8) LD50 oral rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity	1350 mg/kg (Rabbit; Literature, Rabbit; Literature) 2600 mg/kg 980 mg/kg (Rat) • Causes severe skin burns and eye damage. pH: 13 • Causes serious eye damage. pH: 13 • Not classified
LD50 dermal rabbit Potassium Chloride (7447-40-7) LD50 oral rat Thymol (89-83-8) LD50 oral rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity	1350 mg/kg (Rabbit; Literature, Rabbit; Literature) 2600 mg/kg 980 mg/kg (Rat) Causes severe skin burns and eye damage. pH: 13 Causes serious eye damage. pH: 13 Not classified Not classified Not classified Not classified
LD50 dermal rabbit Potassium Chloride (7447-40-7) LD50 oral rat Thymol (89-83-8) LD50 oral rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity	1350 mg/kg (Rabbit; Literature, Rabbit; Literature) 2600 mg/kg 980 mg/kg (Rat) • Causes severe skin burns and eye damage. pH: 13 • Causes serious eye damage. pH: 13 • Not classified
LD50 dermal rabbit Potassium Chloride (7447-40-7) LD50 oral rat Thymol (89-83-8) LD50 oral rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated	1350 mg/kg (Rabbit; Literature, Rabbit; Literature) 2600 mg/kg 980 mg/kg (Rat) Causes severe skin burns and eye damage. pH: 13 Causes serious eye damage. pH: 13 Not classified
LD50 dermal rabbit Potassium Chloride (7447-40-7) LD50 oral rat Thymol (89-83-8) LD50 oral rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure)	1350 mg/kg (Rabbit; Literature, Rabbit; Literature) 2600 mg/kg 980 mg/kg (Rat) Causes severe skin burns and eye damage. pH: 13 Causes serious eye damage. pH: 13 Not classified Not classified
LD50 dermal rabbit Potassium Chloride (7447-40-7) LD50 oral rat Thymol (89-83-8) LD50 oral rat Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitisation Germ cell mutagenicity Carcinogenicity Reproductive toxicity Specific target organ toxicity (single exposure) Specific target organ toxicity (repeated exposure) Aspiration hazard Potential Adverse human health effects and	1350 mg/kg (Rabbit; Literature, Rabbit; Literature) 2600 mg/kg 980 mg/kg (Rat) : Causes severe skin burns and eye damage. pH: 13 : Causes serious eye damage. pH: 13 : Not classified

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 12: Ecological information

12.1. Toxicity

odium Hydroxide (1310-73-2)	
C50 fishes 1	45.4 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Solution >=50%)
C50 Daphnia 1	40.4 mg/l (48 h; Ceriodaphnia sp.; Nominal concentration)
C50 fish 2	189 mg/l (48 h; Leuciscus idus)
M fish 1	99 mg/l (48 h; Lepomis macrochirus)
M fish 2	125 ppm (96 h; Gambusia affinis)
otassium Chloride (7447-40-7)	
C50 Daphnia 1	825 mg/l
ymol (89-83-8)	
C50 fishes 1	3.2 mg/l (96 h; Pimephales promelas)
C50 Daphnia 1	3.2 mg/l (96 h; Gammarus sp.)
C50 fish 2	5 mg/l (96 h; Brachydanio rerio)
C50 Daphnia 2	3.2 mg/l (96 h; Daphnia magna)
reshold limit algae 1	2.3 mg/l (96 h; Chlorophyta)
,	
uffer Solution pH 13.00	Net established
ersistence and degradability	Not established.
ater (7732-18-5)	
ersistence and degradability	Not established.
odium Hydroxide (1310-73-2)	
ersistence and degradability	Biodegradability: not applicable. No (test)data on mobility of the substance available.
ochemical oxygen demand (BOD)	Not applicable
nemical oxygen demand (COD)	Not applicable
	Not applicable
DD (% of ThOD)	Not applicable
otassium Chloride (7447-40-7)	
ersistence and degradability	Not established.
ıymol (89-83-8)	
ersistence and degradability	Readily biodegradable in water.
nemical oxygen demand (COD)	2.69 g O ² /g substance
NOD	2.76 g O ² /g substance
Discoursulative notantial	
Bioaccumulative potential	
uffer Solution pH 13.00	Net established
oaccumulative potential	Not established.
ater (7732-18-5)	
oaccumulative potential	Not established.
odium Hydroxide (1310-73-2)	
oaccumulative potential	Bioaccumulation: not applicable.
•	
otassium Chloride (7447-40-7)	
oaccumulative potential	Not established.
ıymol (89-83-8)	
g Pow	3.3 - 3.4
91.00	· · · · · · · · · · · · · · · · · · ·
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4. Mobility in soil	
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Mobility in soil additional information available	
Mobility in soil additional information available	: Avoid release to the environment.

Buffer Solution pH 13.00 Safety Data Sheet

SECTION 13: Disposal consideration	ons
3.1. Waste treatment methods	
Vaste disposal recommendations Ecology - waste materials	Dispose in a safe manner in accordance with local/national regulations.Avoid release to the environment.
SECTION 14: Transport information	1
n accordance with DOT	
No dangerous good in sense of transport regula	ations
Additional information	
Other information	: No supplementary information available.
ADR	
Fransport document description	:
Fransport by sea	
No additional information available	
Air transport	
No additional information available	
SECTION 15: Regulatory information	on
I5.1. US Federal regulations	
-	
Water (7732-18-5) Listed on the United States TSCA (Toxic Sub-	atanaga Captral Agt) inventory
Listed off the officed States TSCA (Toxic Sub	stances control Act) inventory
Sodium Hydroxide (1310-73-2)	
Listed on the United States TSCA (Toxic Sub	
Listed on the United States TSCA (Toxic Sub RQ (Reportable quantity, section 304 of EPA'	
Listed on the United States TSCA (Toxic Sub RQ (Reportable quantity, section 304 of EPA' List of Lists) : SARA Section 311/312 Hazard Classes	s 1000 lb
Listed on the United States TSCA (Toxic Sub RQ (Reportable quantity, section 304 of EPA' List of Lists) :	s 1000 lb Immediate (acute) health hazard
Listed on the United States TSCA (Toxic Sub- RQ (Reportable quantity, section 304 of EPA' List of Lists) : SARA Section 311/312 Hazard Classes Potassium Chloride (7447-40-7) Listed on the United States TSCA (Toxic Sub-	s 1000 lb Immediate (acute) health hazard
Listed on the United States TSCA (Toxic Sub RQ (Reportable quantity, section 304 of EPA' List of Lists) : SARA Section 311/312 Hazard Classes Potassium Chloride (7447-40-7) Listed on the United States TSCA (Toxic Sub 5.2. International regulations	s 1000 lb Immediate (acute) health hazard
Listed on the United States TSCA (Toxic Sub RQ (Reportable quantity, section 304 of EPA' List of Lists) : SARA Section 311/312 Hazard Classes Potassium Chloride (7447-40-7) Listed on the United States TSCA (Toxic Sub 15.2. International regulations CANADA	s 1000 lb Immediate (acute) health hazard
Listed on the United States TSCA (Toxic Sub- RQ (Reportable quantity, section 304 of EPA' List of Lists) : SARA Section 311/312 Hazard Classes Potassium Chloride (7447-40-7) Listed on the United States TSCA (Toxic Sub- 15.2. International regulations CANADA Buffer Solution pH 13.00	s 1000 lb Immediate (acute) health hazard stances Control Act) inventory
Listed on the United States TSCA (Toxic Sub RQ (Reportable quantity, section 304 of EPA' List of Lists) : SARA Section 311/312 Hazard Classes Potassium Chloride (7447-40-7) Listed on the United States TSCA (Toxic Sub 15.2. International regulations CANADA	s 1000 lb Immediate (acute) health hazard
Listed on the United States TSCA (Toxic Sub- RQ (Reportable quantity, section 304 of EPA' List of Lists) : SARA Section 311/312 Hazard Classes Potassium Chloride (7447-40-7) Listed on the United States TSCA (Toxic Sub- 15.2. International regulations CANADA Buffer Solution pH 13.00	s 1000 lb Immediate (acute) health hazard stances Control Act) inventory
Listed on the United States TSCA (Toxic Sub- RQ (Reportable quantity, section 304 of EPA' List of Lists) : SARA Section 311/312 Hazard Classes Potassium Chloride (7447-40-7) Listed on the United States TSCA (Toxic Sub- 15.2. International regulations CANADA Buffer Solution pH 13.00 WHMIS Classification	s 1000 lb Immediate (acute) health hazard stances Control Act) inventory
Listed on the United States TSCA (Toxic Sub- RQ (Reportable quantity, section 304 of EPA' List of Lists) : SARA Section 311/312 Hazard Classes Potassium Chloride (7447-40-7) Listed on the United States TSCA (Toxic Sub- 15.2. International regulations CANADA Buffer Solution pH 13.00 WHMIS Classification Water (7732-18-5) WHMIS Classification	s 1000 lb Immediate (acute) health hazard stances Control Act) inventory Class D Division 2 Subdivision B - Toxic material causing other toxic effects
Listed on the United States TSCA (Toxic Sub- RQ (Reportable quantity, section 304 of EPA' List of Lists) : SARA Section 311/312 Hazard Classes Potassium Chloride (7447-40-7) Listed on the United States TSCA (Toxic Sub- 15.2. International regulations CANADA Buffer Solution pH 13.00 WHMIS Classification Water (7732-18-5)	s 1000 lb Immediate (acute) health hazard stances Control Act) inventory Class D Division 2 Subdivision B - Toxic material causing other toxic effects Uncontrolled product according to WHMIS classification criteria
Listed on the United States TSCA (Toxic Sub- RQ (Reportable quantity, section 304 of EPA' List of Lists) : SARA Section 311/312 Hazard Classes Potassium Chloride (7447-40-7) Listed on the United States TSCA (Toxic Sub- I5.2. International regulations CANADA Buffer Solution pH 13.00 WHMIS Classification Water (7732-18-5) WHMIS Classification Sodium Hydroxide (1310-73-2)	s 1000 lb Immediate (acute) health hazard stances Control Act) inventory Class D Division 2 Subdivision B - Toxic material causing other toxic effects Uncontrolled product according to WHMIS classification criteria
Listed on the United States TSCA (Toxic Sub- RQ (Reportable quantity, section 304 of EPA' List of Lists) : SARA Section 311/312 Hazard Classes Potassium Chloride (7447-40-7) Listed on the United States TSCA (Toxic Sub- I5.2. International regulations CANADA Buffer Solution pH 13.00 WHMIS Classification Water (7732-18-5) WHMIS Classification Sodium Hydroxide (1310-73-2) Listed on the Canadian DSL (Domestic Susta	s 1000 lb Immediate (acute) health hazard stances Control Act) inventory Class D Division 2 Subdivision B - Toxic material causing other toxic effects Uncontrolled product according to WHMIS classification criteria
Listed on the United States TSCA (Toxic Sub- RQ (Reportable quantity, section 304 of EPA' List of Lists) : SARA Section 311/312 Hazard Classes Potassium Chloride (7447-40-7) Listed on the United States TSCA (Toxic Sub- 15.2. International regulations CANADA Buffer Solution pH 13.00 WHMIS Classification Water (7732-18-5) WHMIS Classification Sodium Hydroxide (1310-73-2) Listed on the Canadian DSL (Domestic Susta WHMIS Classification	s 1000 lb Immediate (acute) health hazard stances Control Act) inventory Class D Division 2 Subdivision B - Toxic material causing other toxic effects Uncontrolled product according to WHMIS classification criteria inces List) inventory. Class E - Corrosive Material

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

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

15.2.2. National regulations

Sodium Hydroxide (1310-73-2)	
Listed on the Canadian Ingredient Disclosure List	
Potassium Chloride (7447-40-7)	
Not listed on the Canadian Ingredient Disclosure List	

15.3. US State regulations

No additional information available

Other information

: None.

Full text of H-phrases: see section 16:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 2	Hazardous to the aquatic environment — AcuteHazard, Category 2
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
Skin Corr. 1C	Skin corrosion/irritation, Category 1C
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H401	Toxic to aquatic life
H402	Harmful to aquatic life

NFPA health hazard	 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given. 	
NFPA fire hazard	: 0 - Materials that will not burn.	
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.	

HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard
Personal Protection	: B

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.

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