

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

Date of issue: 06/04/2013

Revision date: 08/22/2014

Supersedes: 06/04/2013

Version: 2.0

SECTION 1: Identification of the	substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form	: Mixture
Product name	: Buffer Solution pH 2.00
Product code	: LC12220
1.2. Relevant identified uses of the	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 ² Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 <u>info@labchem.com</u> - <u>www.labchem.com</u>	
1.4. Emergency telephone number	
Emergency number	: CHEMTREC: 1-800-424-9300 or 011-703-527-3887
SECTION 2: Hazards identification	n
2.1. Classification of the substance	
GHS-US classification	
Skin Irrit. 2 H315	
Eye Irrit. 2A H319	
2.2. Label elements	
Signal word (GHS-US)	GHS07 : Warning
Signal word (GHS-US) Hazard statements (GHS-US)	:Warning :H315 - Causes skin irritation
Hazard statements (GHS-US)	: Warning
Hazard statements (GHS-US) Precautionary statements (GHS-US)	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation P264 - Wash exposed skin thoroughly after handling P280 - Wear eye protection, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of soap and water P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove cont lenses, if present and easy to do. Continue rinsing P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention
Hazard statements (GHS-US) Precautionary statements (GHS-US) 2.3. Other hazards Other hazards not contributing to the	 Warning H315 - Causes skin irritation H319 - Causes serious eye irritation P264 - Wash exposed skin thoroughly after handling P280 - Wear eye protection, protective gloves P302+P352 - IF ON SKIN: Wash with plenty of soap and water P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove cont lenses, if present and easy to do. Continue rinsing P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention
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Name	Product identifier	%	GHS-US classification
Potassium Chloride	(CAS No) 7447-40-7	0.37	Not classified
Hydrochloric Acid, 37% w/w	(CAS No) 7647-01-0	0.04	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402

SECTION 4: First aid measures	
4.1. Description of first aid measures	
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	: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	 Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Irritation of the gastric/intestinal mucosa.
Symptoms/injuries upon intravenous administration	: Not available.
Chronic symptoms	: Affection/discolouration of the teeth. Dry skin. Inflammation/damage of the eye tissue. Irritation of the respiratory tract.

4.3. Indication of any immediate medical attention and special treatment needed

Obtain medical assistance.

SECTION 5: Firefighting measures			
5.1. Extinguishing media			
Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.		
Unsuitable extinguishing media	: Do not use a heavy water stream.		
5.2. Special hazards arising from the su	bstance or mixture		
Fire hazard	: Not flammable.		
Explosion hazard	: Not applicable.		
5.3. Advice for firefighters			
Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.		
Protection during firefighting	: Do not enter 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			
Protective equipment	: Gloves. Safety glasses.		
Emergency procedures	: Evacuate unnecessary personnel.		
6.1.2. For emergency responders			

Protective equipment : Equip cleanup crew with proper protection. : Ventilate area. Emergency procedures 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 cleaning up
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

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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.		
Hygiene measures	: Wash exposed skin thoroughly after handling.		
7.2. Conditions for safe storage, including any incompatibilities			
Storage conditions	: Keep container closed when not in use.		
Incompatible products	: silver nitrate. metals. Strong bases.		
Incompatible materials	: Sources of ignition. Direct sunlight.		
Prohibitions on mixed storage	: KEEP SUBSTANCE AWAY FROM: (strong) bases.		

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

Hydrochloric Acid, 37% w/w (7647-01-0)			
USA ACGIH	ACGIH Ceiling (mg/m ³)	2.98 mg/m ³	
USA ACGIH	ACGIH Ceiling (ppm)	2 ppm	
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	7 mg/m³	
USA OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm	

8.2. **Exposure controls**

Appropriate engineering controls	Emergency eye of any potential	wash fountains and safety showers should be available in the immediate vicinity exposure.
Personal protective equipment	Avoid all unnece	essary exposure.
Hand protection	Wear protective	gloves.
Eye protection	Chemical goggle	es or safety glasses.
Skin and body protection	Wear suitable p	rotective clothing.
Respiratory protection	Respiratory prot	ection not required in normal conditions.
Other information	Do not eat, drink	or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and	d chemical properties
Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Colour	: Colourless
Odour	: Odourless
Odour threshold	: No data available
рН	: 2 @ 25°C
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
Auto-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
08/22/2014	EN (English)

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Density	: 1
Solubility	 Soluble in water. Water: Solubility in water of component(s) of the mixture : Potassium Chloride: 357 g/l Hydrochloric Acid, 37% w/w: Complete
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
9.2. Other information	
No additional information available	

SECTI	ON 10: Stability and reactivity
10.1.	Reactivity
No addit	ional information available
10.2.	Chemical stability
Stable u	nder normal conditions.
10.3.	Possibility of hazardous reactions
Not esta	blished.
10.4.	Conditions to avoid
Direct su	unlight. Extremely high or low temperatures.
10.5.	Incompatible materials
silver nit	rate. metals. Strong bases.
10.6.	Hazardous decomposition products
Hydroge	en chloride.

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity

: Not classified

Potassium Chloride (7447-40-7)		
LD50 oral rat	2600 mg/kg	
ATE US (oral)	2600 mg/kg bodyweight	
Hydrochloric Acid, 37% w/w (7647-01-0)		
LD50 oral rat	700 mg/kg	
LD50 dermal rabbit	5010 mg/kg	
ATE US (oral)	700 mg/kg bodyweight	
ATE US (dermal)	5010 mg/kg bodyweight	
Water (7732-18-5)		
LD50 oral rat	≥ 90000 mg/kg	
ATE US (oral)	90000 mg/kg bodyweight	
Skin corrosion/irritation	: Causes skin irritation.	
	pH: 2 @ 25°C	
Serious eye damage/irritation	: Causes serious eye irritation.	
	pH: 2 @ 25°C	
Respiratory or skin sensitisation	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Hydrochloric Acid, 37% w/w (7647-01-0)		
IARC group	3 - Not classifiable	
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	-
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated	: Not classified
exposure)	
Aspiration hazard	: Not classified
Potential adverse human health effects and	: Based on available data, the classification criteria are not met.
symptoms	
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Irritation of the gastric/intestinal mucosa.
Symptoms/injuries upon intravenous	: Not available.
administration	
Chronic symptoms	: Affection/discolouration of the teeth. Dry skin. Inflammation/damage of the eye tissue. Irritation of the respiratory tract.

SECTION 12: Ecological inf	ormation

12.1. Toxicity

Hydrochloric Acid, 37% w/w (7647-01-0) LC50 fishes 1 28 EC50 Daphnia 1 < LC50 fish 2 86 TLM fish 1 28 I2.2. Persistence and degradability Buffer Solution pH 2.00 Persistence and degradability Potassium Chloride (7447-40-7) No	25 mg/l 82 mg/l (96 h; Gambusia affinis; Pure substance) 56 mg/l (72 h; Daphnia magna; Pure substance) 62 mg/l (Leuciscus idus; Pure substance) 82 ppm (96 h; Gambusia affinis; Pure substance) lot established.
LC50 fishes 1 28 EC50 Daphnia 1 <	 56 mg/l (72 h; Daphnia magna; Pure substance) 62 mg/l (Leuciscus idus; Pure substance) 82 ppm (96 h; Gambusia affinis; Pure substance) lot established.
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LC50 fish 2 86 TLM fish 1 28 12.2. Persistence and degradability Buffer Solution pH 2.00 Persistence and degradability No Potassium Chloride (7447-40-7)	62 mg/l (Leuciscus idus; Pure substance) 82 ppm (96 h; Gambusia affinis; Pure substance) lot established.
TLM fish 1 28 12.2. Persistence and degradability Buffer Solution pH 2.00 Persistence and degradability Persistence and degradability No Potassium Chloride (7447-40-7) No	82 ppm (96 h; Gambusia affinis; Pure substance) lot established.
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Potassium Chloride (7447-40-7)	
	lot established.
	lot established.
Persistence and degradability No	
Hydrochloric Acid, 37% w/w (7647-01-0)	
Persistence and degradability Bi	iodegradability: not applicable. No (test)data on mobility of the components available.
Biochemical oxygen demand (BOD) No	lot applicable
Chemical oxygen demand (COD) No	lot applicable
ThOD No	lot applicable
BOD (% of ThOD) No	lot applicable
Water (7732-18-5)	
Persistence and degradability No	lot established.
2.3. Bioaccumulative potential	
Buffer Solution pH 2.00	
Bioaccumulative potential No	lot established.
Potassium Chloride (7447-40-7)	
Bioaccumulative potential No	lot established.
Hydrochloric Acid, 37% w/w (7647-01-0)	
Log Pow 0.1	.25 (QSAR)
Bioaccumulative potential Lo	ow potential for bioaccumulation (Log Kow < 4).
Water (7732-18-5)	
Bioaccumulative potential No	lot established.
12.4. Mobility in soil	

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Hydrochloric Acid, 37% w/w (7647-01-0) Ecology - soil May be harmful to plant growth, blooming and fruit formation. 12.5. Other adverse effects Effect on ozone layer : No additional information available Effect on the global warming : No known ecological damage caused by this product. Other information : Avoid release to the environment. SECTION 13: Disposal considerations : 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 Not regulated for transport Additional information Other information : No supplementary information available. ADR : Transport by sea No additional information available Air transport No additional information available SECTION 15: Regulatory information : More additional information available SECTION 15: Regulatory information All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory		
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	All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic	
specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.		
Hydrochloric Acid, 37% w/w (7647-01-0)		
RQ (Reportable quantity, section 304 of EPA's 5000 lb List of Lists) :	7	
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard		
15.2. International regulations		
CANADA		
Buffer Solution pH 2.00		
WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects		
Potassium Chloride (7447-40-7)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification Uncontrolled product according to WHMIS classification criteria		
Hydrochloric Acid, 37% w/w (7647-01-0)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification Class E - Corrosive Material		
Water (7732-18-5)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification Uncontrolled product according to WHMIS classification criteria		

Safety Data Sheet

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

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 No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information	
Revision date	: 08/22/2014
Other information	: None.

Full text of H-phrases: see section 16:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 3	Hazardous to the aquatic environment — Acute Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation, Category 2A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3,
	Respiratory tract irritation
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H402	Harmful to aquatic life

NFPA health hazard	: 1 - Exposure could cause irritation but only minor residual injury even if no treatment 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	: 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability	: 0 Minimal Hazard
Physical	: 0 Minimal Hazard

SDS US (GHS HazCom 2012)

Personal Protection

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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