

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/14/2013 Revision date: 12/21/2016

Supersedes: 02/19/2014

Version: 1.2

L	Date of Issue: 10/14/2013	Revision date: 12/21/2016	Supersedes:	02/19/2014 Version: 1.2
SECTION 1: Identification				
1.1. Identification				
Product form	: Mixture			
Product name	: Buffer Solutio	n pH 5.00		
Product code	: LC12300			
I.2. Relevant identified uses of the	he substance or mixture	and uses advised agains	t	
Use of the substance/mixture	: For laboratory	/ and manufacturing use onl	у.	
Recommended use	: Laboratory ch	emicals		
Restrictions on use	: Not for food, o	drug or household use		
I.3. Details of the supplier of the	safety data sheet			
LabChem Inc Jackson's Pointe Commerce Park Buildir Zelienople, PA 16063 - USA T 412-826-5230 - F 724-473-0647 nfo@labchem.com	ng 1000, 1010 Jackson's	Pointe Court		
1.4. Emergency telephone number	er			
Emergency number	: CHEMTREC:	1-800-424-9300 or 011-703	3-527-3887	
SECTION 2: Hazard(s) identific	ation			
2.1. Classification of the substan				
GHS-US classification				
Not classified				
2.2. Label elements				
Not classified as a hazardous chemical.				
2.3. Other hazards				
Other hazards not contributing to the classification	: None.			
2.4. Unknown acute toxicity (GHS	S US)			
Not applicable				
SECTION 3: Composition/Infor	mation on ingredie	ents		
3.1. Substance				
Not applicable				
3.2. Mixture				
Name	Produ	ct identifier	%	GHS-US classification
Water	(CAS No	o) 7732-18-5	98.85	Not classified
Potassium Hydrogen Phthalate	(CAS No	o) 877-24-7	1.02	Eye Irrit. 2B, H320
Sodium Hydroxide	(CAS No	) 1310-73-2	0.09	Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Acute 3, H402
Formaldehyde, 37% w/w	(CAS No	») 50-00-0	0.04	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 2 (Inhalation:vapour), H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Carc. 1A, H350 STOT SE 1, H370

Safety Data Sheet

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

Full text of hazard classes and H-statements : see section 16

Full text	of hazard classes and H-statements : see	e section 16
SECTI	ON 4: First aid measures	
4.1.	Description of first aid measures	
-irst-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	: Allow victim to breathe fresh air. 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.
First-aid	measures after eye contact	: Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persist.
First-aid	measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
4.2.	Most important symptoms and effect	s, both acute and delayed
Symptor	ns/injuries	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3.	Indication of any immediate medical	attention and special treatment needed
No addit	ional information available	
SECTI	ON 5: Firefighting measures	
5.1.	Extinguishing media	
		: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitat	ble extinguishing media	: Do not use a heavy water stream.
5.2.	Special hazards arising from the sub	
Reactivi	ty	: None.
5.3.	Advice for firefighters	
•	ing instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protectio	on during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTI	ON 6: Accidental release meas	
6.1.	Personal precautions, protective equ	ipment and emergency procedures
6.1.1.	For non-emergency personnel	
	/e equipment	: Safety glasses.
Emerge	ncy procedures	: Evacuate unnecessary personnel.
6.1.2.	For emergency responders	
	/e equipment	: Equip cleanup crew with proper protection.
Emerge	ncy procedures	: Ventilate area.
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 containmer	nt and cleaning up
Methods	s 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.
6.4.	Reference to other sections	
See Hea	ading 8. Exposure controls and personal p	protection.
SECTI	ON 7: Handling and storage	
7.1.	Precautions for safe handling	
Precauti	ons 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 vapor.
Hygiene	measures	: Do not eat, drink or smoke when using this product.
7.2.	Conditions for safe storage, including	g any incompatibilities
Storage	conditions	: Keep container closed when not in use.
	atible products	: Strong oxidizers.
	atible materials	: None known.
12/21/20	16	EN (English US) 2/8

## Safety Data Sheet

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

SECTION 8: Exposure controls/personal protection		
8.1. Control pa	rameters	
Potassium Hydrog	en Phthalate (877-24-7)	
Not applicable		
Formaldehyde, 37	% w/w (50-00-0)	
ACGIH	ACGIH Ceiling (mg/m <sup>3</sup> )	0.37 mg/m <sup>3</sup>
OSHA	OSHA PEL (TWA) (ppm)	0.75 ppm
OSHA	OSHA PEL (STEL) (ppm)	2 ppm
IDLH	US IDLH (ppm)	20 ppm
NIOSH	NIOSH REL (TWA) (ppm)	0.016 ppm
NIOSH	NIOSH REL (ceiling) (ppm)	0.1 ppm 15 min.
Water (7732-18-5)		
Not applicable		
Sodium Hydroxide (1310-73-2)		
ACGIH	ACGIH Ceiling (mg/m³)	2 mg/m <sup>3</sup> (Sodium hydroxide; USA; Momentary value; TLV - Adopted Value)
OSHA	OSHA PEL (TWA) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>
IDLH	US IDLH (mg/m <sup>3</sup> )	10 mg/m <sup>3</sup>
NIOSH	NIOSH REL (ceiling) (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup>

### 8.2. Exposure controls

Appropriate engineering controls

: Emergency eye wash fountains should be available in the immediate vicinity of any potential exposure.

Personal protective equipment

: Safety glasses.



Eye protection	:	Chemical goggles or safety glasses.
Respiratory protection	:	Respiratory protection 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 an	d chemical properties
Physical state	: Liquid
Color	: Colorless
Odor	: Odorless
Odor threshold	: No data available
рН	: 5
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 1
12/21/2016	EN (English US)

## Safety Data Sheet

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

according to Federal Register / Vol. 77, No. 58 / Monday,	March 26, 2012 / Rules and Regulations
Solubility	: Soluble in water.
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: Not applicable.
Oxidizing properties	: None.
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity None.	
10.2. Chemical stability	
Stable under normal conditions.	
10.3. Possibility of hazardous reactions	
None.	
10.4. Conditions to avoid	
Extremely high or low temperatures.	
10.5. Incompatible materials	
Strong oxidizers.	
10.6. Hazardous decomposition products	
Formaldehyde. Carbon monoxide. Carbon dioxide	
	-
CECTION 44. Toxicological informati	
SECTION 11: Toxicological informati	on
<b>SECTION 11: Toxicological informati</b> 11.1. Information on toxicological effects	on
11.1. Information on toxicological effects	
11.1.         Information on toxicological effects           Likely routes of exposure	: Skin and eye contact
11.1. Information on toxicological effects	
11.1.       Information on toxicological effects         Likely routes of exposure       Acute toxicity         Potassium Hydrogen Phthalate (877-24-7)	: Skin and eye contact : Not classified
11.1.       Information on toxicological effects         Likely routes of exposure         Acute toxicity         Potassium Hydrogen Phthalate (877-24-7)         LD50 oral rat	<ul> <li>Skin and eye contact</li> <li>Not classified</li> <li>≥ 3200 mg/kg</li> </ul>
11.1.       Information on toxicological effects         Likely routes of exposure       Acute toxicity         Potassium Hydrogen Phthalate (877-24-7)	: Skin and eye contact : Not classified
11.1.       Information on toxicological effects         Likely routes of exposure         Acute toxicity         Potassium Hydrogen Phthalate (877-24-7)         LD50 oral rat         ATE US (oral)         Formaldehyde, 37% w/w (50-00-0)	<ul> <li>Skin and eye contact</li> <li>Not classified</li> <li>≥ 3200 mg/kg</li> <li>3200.000 mg/kg body weight</li> </ul>
11.1.       Information on toxicological effects         Likely routes of exposure         Acute toxicity         Potassium Hydrogen Phthalate (877-24-7)         LD50 oral rat         ATE US (oral)         Formaldehyde, 37% w/w (50-00-0)         LD50 oral rat	<ul> <li>Skin and eye contact</li> <li>Not classified</li> <li>≥ 3200 mg/kg</li> <li>3200.000 mg/kg body weight</li> <li>500 mg/kg</li> </ul>
11.1. Information on toxicological effects         Likely routes of exposure         Acute toxicity         Potassium Hydrogen Phthalate (877-24-7)         LD50 oral rat         ATE US (oral)         Formaldehyde, 37% w/w (50-00-0)         LD50 oral rat         ATE US (oral)	<ul> <li>Skin and eye contact</li> <li>Not classified</li> <li>≥ 3200 mg/kg</li> <li>3200.000 mg/kg body weight</li> <li>500 mg/kg</li> <li>500.000 mg/kg body weight</li> </ul>
11.1.       Information on toxicological effects         Likely routes of exposure         Acute toxicity         Potassium Hydrogen Phthalate (877-24-7)         LD50 oral rat         ATE US (oral)         Formaldehyde, 37% w/w (50-00-0)         LD50 oral rat         ATE US (oral)	<ul> <li>Skin and eye contact</li> <li>Not classified</li> <li>≥ 3200 mg/kg</li> <li>3200.000 mg/kg body weight</li> <li>500 mg/kg</li> <li>500 ng/kg body weight</li> <li>2000.000 mg/kg body weight</li> </ul>
11.1.       Information on toxicological effects         Likely routes of exposure         Acute toxicity         Potassium Hydrogen Phthalate (877-24-7)         LD50 oral rat         ATE US (oral)         Formaldehyde, 37% w/w (50-00-0)         LD50 oral rat         ATE US (oral)         ATE US (oral)         ATE US (oral)         ATE US (oral)         ATE US (vapors)	<ul> <li>Skin and eye contact</li> <li>Not classified</li> <li>≥ 3200 mg/kg</li> <li>3200.000 mg/kg body weight</li> <li>500 mg/kg</li> <li>500.000 mg/kg body weight</li> </ul>
11.1.Information on toxicological effectsLikely routes of exposureAcute toxicityPotassium Hydrogen Phthalate (877-24-7)LD50 oral ratATE US (oral)Formaldehyde, 37% w/w (50-00-0)LD50 oral ratATE US (oral)ATE US (oral)ATE US (oral)ATE US (oral)ATE US (vapors)Water (7732-18-5)	<ul> <li>Skin and eye contact</li> <li>Not classified</li> <li>≥ 3200 mg/kg</li> <li>3200.000 mg/kg body weight</li> <li>500 mg/kg</li> <li>500 000 mg/kg body weight</li> <li>2000.000 mg/kg body weight</li> <li>0.578 mg/l/4h</li> </ul>
<b>11.1.</b> Information on toxicological effectsLikely routes of exposureAcute toxicity <b>Potassium Hydrogen Phthalate (877-24-7)</b> LD50 oral ratATE US (oral) <b>Formaldehyde, 37% w/w (50-00-0)</b> LD50 oral ratATE US (oral)ATE US (oral)ATE US (oral)ATE US (oral)ATE US (oral)ATE US (oral)ATE US (vapors)Water (7732-18-5)LD50 oral rat	<ul> <li>Skin and eye contact</li> <li>Not classified</li> <li>≥ 3200 mg/kg</li> <li>3200.000 mg/kg body weight</li> <li>500 mg/kg</li> <li>500.000 mg/kg body weight</li> <li>2000.000 mg/kg body weight</li> <li>0.578 mg/l/4h</li> <li>≥ 90000 mg/kg</li> </ul>
11.1. Information on toxicological effectsLikely routes of exposureAcute toxicityPotassium Hydrogen Phthalate (877-24-7)LD50 oral ratATE US (oral)Formaldehyde, 37% w/w (50-00-0)LD50 oral ratATE US (oral)ATE US (oral)ATE US (oral)ATE US (oral)ATE US (dermal)ATE US (vapors)Water (7732-18-5)LD50 oral ratATE US (oral)	<ul> <li>Skin and eye contact</li> <li>Not classified</li> <li>≥ 3200 mg/kg</li> <li>3200.000 mg/kg body weight</li> <li>500 mg/kg</li> <li>500 000 mg/kg body weight</li> <li>2000.000 mg/kg body weight</li> <li>0.578 mg/l/4h</li> </ul>
11.1. Information on toxicological effectsLikely routes of exposureAcute toxicityPotassium Hydrogen Phthalate (877-24-7)LD50 oral ratATE US (oral)Formaldehyde, 37% w/w (50-00-0)LD50 oral ratATE US (oral)ATE US (oral)ATE US (oral)ATE US (dermal)ATE US (vapors)Water (7732-18-5)LD50 oral ratATE US (oral)Sodium Hydroxide (1310-73-2)	<ul> <li>Skin and eye contact</li> <li>Not classified</li> <li>≥ 3200 mg/kg</li> <li>3200.000 mg/kg body weight</li> <li>500 mg/kg</li> <li>500.000 mg/kg body weight</li> <li>2000.000 mg/kg body weight</li> <li>0.578 mg/l/4h</li> <li>≥ 90000 mg/kg body weight</li> <li>0.578 mg/l/4h</li> </ul>
<ul> <li>11.1. Information on toxicological effects</li> <li>Likely routes of exposure</li> <li>Acute toxicity</li> <li>Potassium Hydrogen Phthalate (877-24-7)</li> <li>LD50 oral rat</li> <li>ATE US (oral)</li> <li>Formaldehyde, 37% w/w (50-00-0)</li> <li>LD50 oral rat</li> <li>ATE US (oral)</li> <li>ATE US (oral)</li> <li>ATE US (oral)</li> <li>ATE US (dermal)</li> <li>ATE US (vapors)</li> <li>Water (7732-18-5)</li> <li>LD50 oral rat</li> <li>ATE US (oral)</li> <li>Sodium Hydroxide (1310-73-2)</li> <li>ATE US (dermal)</li> </ul>	<ul> <li>Skin and eye contact</li> <li>Not classified</li> <li>≥ 3200 mg/kg</li> <li>3200.000 mg/kg body weight</li> <li>500 mg/kg</li> <li>500 000 mg/kg body weight</li> <li>2000.000 mg/kg body weight</li> <li>0.578 mg/l/4h</li> <li>≥ 90000 mg/kg</li> <li>90000.000 mg/kg body weight</li> <li>1350.000 mg/kg body weight</li> </ul>
11.1. Information on toxicological effectsLikely routes of exposureAcute toxicityPotassium Hydrogen Phthalate (877-24-7)LD50 oral ratATE US (oral)Formaldehyde, 37% w/w (50-00-0)LD50 oral ratATE US (oral)ATE US (oral)ATE US (oral)ATE US (dermal)ATE US (vapors)Water (7732-18-5)LD50 oral ratATE US (oral)Sodium Hydroxide (1310-73-2)	<ul> <li>Skin and eye contact</li> <li>Not classified</li> <li>≥ 3200 mg/kg</li> <li>3200.000 mg/kg body weight</li> <li>500 mg/kg</li> <li>500.000 mg/kg body weight</li> <li>2000.000 mg/kg body weight</li> <li>0.578 mg/l/4h</li> <li>≥ 90000 mg/kg</li> <li>90000.000 mg/kg body weight</li> <li>1350.000 mg/kg body weight</li> <li>1350.000 mg/kg body weight</li> <li>Not classified</li> </ul>
<ul> <li>11.1. Information on toxicological effects</li> <li>Likely routes of exposure</li> <li>Acute toxicity</li> <li>Potassium Hydrogen Phthalate (877-24-7)</li> <li>LD50 oral rat</li> <li>ATE US (oral)</li> <li>Formaldehyde, 37% w/w (50-00-0)</li> <li>LD50 oral rat</li> <li>ATE US (oral)</li> <li>ATE US (oral)</li> <li>ATE US (oral)</li> <li>ATE US (dermal)</li> <li>ATE US (oral)</li> <li>Sodium Hydroxide (1310-73-2)</li> <li>ATE US (dermal)</li> <li>Skin corrosion/irritation</li> </ul>	<ul> <li>Skin and eye contact</li> <li>Not classified</li> <li>≥ 3200 mg/kg</li> <li>3200.000 mg/kg body weight</li> <li>500 mg/kg</li> <li>500.000 mg/kg body weight</li> <li>2000.000 mg/kg body weight</li> <li>0.578 mg/l/4h</li> <li>≥ 90000 mg/kg body weight</li> <li>1350.000 mg/kg body weight</li> <li>1350.000 mg/kg body weight</li> <li>1350.000 mg/kg body weight</li> <li>1350.000 mg/kg body weight</li> <li>Not classified pH: 5</li> </ul>
<ul> <li>11.1. Information on toxicological effects</li> <li>Likely routes of exposure</li> <li>Acute toxicity</li> <li>Potassium Hydrogen Phthalate (877-24-7)</li> <li>LD50 oral rat</li> <li>ATE US (oral)</li> <li>Formaldehyde, 37% w/w (50-00-0)</li> <li>LD50 oral rat</li> <li>ATE US (oral)</li> <li>ATE US (oral)</li> <li>ATE US (oral)</li> <li>ATE US (dermal)</li> <li>ATE US (vapors)</li> <li>Water (7732-18-5)</li> <li>LD50 oral rat</li> <li>ATE US (oral)</li> <li>Sodium Hydroxide (1310-73-2)</li> <li>ATE US (dermal)</li> </ul>	<ul> <li>Skin and eye contact</li> <li>Not classified</li> <li>≥ 3200 mg/kg</li> <li>3200.000 mg/kg body weight</li> <li>500 mg/kg</li> <li>500.000 mg/kg body weight</li> <li>2000.000 mg/kg body weight</li> <li>0.578 mg/l/4h</li> <li>≥ 90000 mg/kg body weight</li> <li>2000.000 mg/kg body weight</li> <li>1350.000 mg/kg body weight</li> <li>1350.000 mg/kg body weight</li> <li>Not classified pH: 5</li> <li>Not classified</li> </ul>
11.1. Information on toxicological effectsLikely routes of exposureAcute toxicityPotassium Hydrogen Phthalate (877-24-7)LD50 oral ratATE US (oral)Formaldehyde, 37% w/w (50-00-0)LD50 oral ratATE US (oral)ATE US (oral)ATE US (oral)ATE US (dermal)ATE US (vapors)Water (7732-18-5)LD50 oral ratATE US (oral)Sodium Hydroxide (1310-73-2)ATE US (dermal)Skin corrosion/irritationSerious eye damage/irritation	<ul> <li>Skin and eye contact</li> <li>Not classified</li> <li>≥ 3200 mg/kg</li> <li>3200.000 mg/kg body weight</li> <li>500 mg/kg</li> <li>500.000 mg/kg body weight</li> <li>2000.000 mg/kg body weight</li> <li>0.578 mg/l/4h</li> <li>≥ 90000 mg/kg body weight</li> <li>2578 mg/l/4h</li> <li>1350.000 mg/kg body weight</li> <li>1350.000 mg/kg body weight</li> <li>Not classified pH: 5</li> <li>Not classified pH: 5</li> </ul>
11.1. Information on toxicological effectsLikely routes of exposure Acute toxicityPotassium Hydrogen Phthalate (877-24-7) LD50 oral rat ATE US (oral)Formaldehyde, 37% w/w (50-00-0) LD50 oral rat ATE US (oral)ATE US (vapors)Water (7732-18-5) LD50 oral rat ATE US (oral)Sodium Hydroxide (1310-73-2) ATE US (dermal)Skin corrosion/irritationSerious eye damage/irritationRespiratory or skin sensitization	<ul> <li>Skin and eye contact</li> <li>Not classified</li> <li>≥ 3200 mg/kg</li> <li>3200.000 mg/kg body weight</li> <li>500 mg/kg</li> <li>500.000 mg/kg body weight</li> <li>2000.000 mg/kg body weight</li> <li>0.578 mg/l/4h</li> <li>≥ 90000 mg/kg body weight</li> <li>1350.000 mg/kg body weight</li> <li>1350.000 mg/kg body weight</li> <li>1350.000 mg/kg body weight</li> <li>Source (Statistica)</li> <li>pH: 5</li> <li>Not classified</li> <li>pH: 5</li> <li>Not classified</li> <li>pH: 5</li> <li>Not classified</li> </ul>
11.1. Information on toxicological effectsLikely routes of exposureAcute toxicityPotassium Hydrogen Phthalate (877-24-7)LD50 oral ratATE US (oral)Formaldehyde, 37% w/w (50-00-0)LD50 oral ratATE US (oral)ATE US (oral)ATE US (oral)ATE US (dermal)ATE US (vapors)Water (7732-18-5)LD50 oral ratATE US (oral)Sodium Hydroxide (1310-73-2)ATE US (dermal)Skin corrosion/irritationSerious eye damage/irritation	<ul> <li>Skin and eye contact</li> <li>Not classified</li> <li>≥ 3200 mg/kg</li> <li>3200.000 mg/kg body weight</li> <li>500 mg/kg</li> <li>500.000 mg/kg body weight</li> <li>2000.000 mg/kg body weight</li> <li>0.578 mg/l/4h</li> <li>≥ 90000 mg/kg body weight</li> <li>2578 mg/l/4h</li> <li>1350.000 mg/kg body weight</li> <li>1350.000 mg/kg body weight</li> <li>Not classified pH: 5</li> <li>Not classified pH: 5</li> </ul>

Safety Data Sheet

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

Formaldehyde, 37% w/w (50-00-0)	
IARC group	1 - Carcinogenic to humans
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. Toxicity		
Formaldehyde, 37% w/w (50-00-0)		
LC50 fish 1	41 mg/l (LC50; 96 h)	
EC50 Daphnia 1	14.7 mg/l (EC50; 24 h)	
EC50 Daphnia 2	2 mg/l	
Threshold limit algae 1	2.5 mg/l (EC0; 192 h)	
Sodium Hydroxide (1310-73-2)		
LC50 fish 1	45.4 mg/l (LC50; Other; 96 h; Salmo gairdneri; Static system; Fresh water; Experimental value)	

### 12.2. Persistence and degradability

12.2. Persistence and degradability	
Buffer Solution pH 5.00	
Persistence and degradability	Not established.
Potassium Hydrogen Phthalate (877-24-7	7)
Persistence and degradability	Not established.
Formaldehyde, 37% w/w (50-00-0)	
Persistence and degradability	Readily biodegradable in water. Biodegradability in soil: no data available. No test data on mobility of the components available. Photodegradation in the air.
Biochemical oxygen demand (BOD)	0.64 g O₂/g substance
Chemical oxygen demand (COD)	1.06 g O₂/g substance
ThOD	1.068 g O₂/g substance
BOD (% of ThOD)	0.6 (5 days; Literature study)
Water (7732-18-5)	
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
12.3. Bioaccumulative potential	
Buffer Solution pH 5.00	

Buffer Solution pH 5.00		
Bioaccumulative potential	Not established.	
Potassium Hydrogen Phthalate (877-24-7)		
Bioaccumulative potential	Not established.	
Formaldehyde, 37% w/w (50-00-0)		
Log Pow	-0.78 - 0.0	
Bioaccumulative potential	Bioaccumulation: not applicable.	

### Safety Data Sheet

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

Water (7732-18-5)		
Bioaccumulative potential	Not established.	
Sodium Hydroxide (1310-73-2)		
Bioaccumulative potential	No bioaccumulation data available.	
2.4. Mobility in soil		
Formaldehyde, 37% w/w (50-00-0)		
Ecology - soil	Toxic to flora.	
2.5. Other adverse effects		
fect on the global warming	: No known effects from this product.	
WPmix comment	: No known effects from this product.	
ther information	: Avoid release to the environment.	
ECTION 13: Disposal considerat	tions	
3.1. Waste treatment methods		
aste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.	
Ecology - waste materials : Avoid release to the environment.		

Department of Transportation (DOT) In accordance with DOT Not regulated

### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as 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.

Formaldehyde, 37% w/w (50-00-0)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	100 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	0.1 %
Sodium Hydroxide (1310-73-2)	
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

15.2. International regulations		
CANADA		
Buffer Solution pH 5.00		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
Potassium Hydrogen Phthalate (877-24-7)		
WHMIS Classification	Assification Class D Division 2 Subdivision B - Toxic material causing other toxic effects	

Safety Data Sheet

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

Formaldehyde, 37% w/w (50-00-0)		
Listed on the Canadian DSL (Domestic Substanc	es List)	
WHMIS Classification	Class B Division 3 - Combustible Liquid Class D Division 1 Subdivision A - Very toxic material causing immediate and serious toxic effects Class D Division 2 Subdivision A - Very toxic material causing other toxic effects Class D Division 2 Subdivision B - Toxic material causing other toxic effects Class E - Corrosive Material	
Water (7732-18-5)		
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria	
Sodium Hydroxide (1310-73-2)		
Listed on the Canadian DSL (Domestic Substanc	es List)	
WHMIS Classification	Class E - Corrosive Material	

### **EU-Regulations**

No additional information available

### **National regulations**

Formaldehyde, 37% w/w (50-00-0)	
Listed on the Canadian IDL (Ingredient Disclosure List)	

### 15.3. US State regulations

California Proposition 65 - This product contains, or may contain, trace quantities of a substance(s) known to the state of California to cause cancer, developmental and/or reproductive harm

Formaldehyde, 37% w/w (50-00-0)				
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	Non-significant risk level (NSRL)
Yes	Yes	No	No	40 µg/day

SECTION 16: Other information		
Revision date	: 12/21/2016	
Other information	: None.	
Full tout of LL abases and continu	- 40.	

#### Full text of H-phrases: see section 16:

H226	Flammable liquid and vapor
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H320	Causes eye irritation
H330	Fatal if inhaled
H350	May cause cancer
H370	Causes damage to organs
H401	Toxic to aquatic life
H402	Harmful to aquatic life

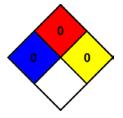
NFPA health hazard

: 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.



## Safety Data Sheet

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

HMIS III Rating	
Health	: 0 Minimal Hazard - No significant risk to health
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection	: A
	A - Safety glasses

SDS US LabChem

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.