

DAWN SCIENTIFIC YOUR SCIENTIFIC PARTNER

ISO 9001:2015 Certified

# SAFETY DATA SHEET

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

Revision Date: N/A

**Revision Number: 1** 

# SECTION 1 identification

# 1.1. Product Identifier

Trade Name or Designation: Buffer Solution, (Giordano) pH 6.4 Product Number: B16034`

## **1.2. Recommended Use and Restrictions on Use** General Laboratory Reagent

## 1.3. Details of the Supplier of the Safety Data Sheet

## **Dawn Scientific Inc**

121 Liberty Street, Metuchen, NJ, 08840 Tel : 732-902-6300 | Fax : 973-802-1005 sales@dawnscientific.com | www.dawnscientific.com

# 1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300

## SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture	е
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#### **GHS-US** classification

Not classified

#### 2.2. Label elements

2.3. Other hazards

Other hazards not contributing to the : None. classification

# 2.4. Unknown acute toxicity (GHS US)

Not applicable

#### **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%
Water	(CAS No) 7732-18-5	98.98
Potassium Phosphate, Monobasic	(CAS No) 7778-77-0	0.66
Sodium Phosphate, Dibasic, Anhydrous	(CAS No) 7558-79-4	0.32
Formaldehyde, 37% w/w	(CAS No) 50-00-0	0.04

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

#### **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	: 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 persists.
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	: Not expected to present a significant hazard under anticipated conditions of normal use.
4.3. Indication of any immediate medica	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 sul	ostance or mixture
No additional information available	
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 meas	sures
6.1. Personal precautions, protective eq	uipment and emergency procedures
6.1.1. For non-emergency personnel	
Protective equipment	: Safety glasses.
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
	v authorities if liquid enters sewers or public waters.
6.3. Methods and material for containme	nt and cleaning up
Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect
0.1	spillage. Store away from other materials.
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 vapor.
7.2. Conditions for safe storage, including	ng any incompatibilities
Storage conditions	: Keep container closed when not in use.
Incompatible products	: Strong bases. Strong acids.
Incompatible materials	: Sources of ignition. Direct sunlight.
SECTION & Experime controls/mars	anal protection
SECTION 8: Exposure controls/pers	
8.1. Control parameters	
Water (7732-18-5)	

Potassium Phosphate, Monobasic (7778-77-0)			
Not applicable			
Formaldehyde, 379	% 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.	
Sodium Phosphate	e, Dibasic, Anhydrous (7558-79-4)		
Not applicable			

#### 8.2. Exposure controls

Appropriate engineering controls

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

Personal protective equipment

: Safety glasses.



Eye protection

Respiratory protection

- : Chemical goggles or safety glasses.
- : Respira
- Other information
- Respiratory protection not required in normal conditions.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	: None.
Odor threshold	: No data available
рН	: 6.4
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 g/ml
Solubility	: Miscible with 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	: No data available
Oxidizing properties	: No data available

es.
ion
: Skin and eye contact
: Not classified
≥ 90000 mg/kg
90000.000 mg/kg body weight
0)
4640 mg/kg
4640.000 mg/kg body weight
500 mg/kg
500.000 mg/kg body weight
2000.000 mg/kg body weight
0.578 mg/l/4h
58-79-4)
5950 mg/kg
≥ 7940 mg/kg
5950.000 mg/kg body weight
7940.000 mg/kg body weight
: Not classified
pH: 6.4
: Not classified
pH: 6.4
: Not classified
: Not classified
: Not classified
1 - Carcinogenic to humans
1 - Carcinogenic to humans   : Not classified
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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 Phosphate, Dibasic, Anhydrous (7558-79-4)	
LC50 fish 1	≥ 100 mg/l
EC50 Daphnia 1	≥ 100 mg/l
12.2. Persistence and degradability	
Buffer Solution, Giordano, pH 6.4	
Persistence and degradability	Not established.
Water (7732-18-5)	
Persistence and degradability	Not established.
Potassium Phosphate, Monobasic (7778-77-0)	
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)
Sodium Phosphate, Dibasic, Anhydrous (7558-79-4)	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
Buffer Solution, Giordano, pH 6.4	
Bioaccumulative potential	Not established.
Water (7732 18 5)	

Water (7732-18-5)	
Not established.	
Potassium Phosphate, Monobasic (7778-77-0)	
Not established.	
Formaldehyde, 37% w/w (50-00-0)	
-0.78 - 0.0	
Bioaccumulation: not applicable.	
Sodium Phosphate, Dibasic, Anhydrous (7558-79-4)	
Not established.	

# 12.4. Mobility in soil

Formaldehyde, 37% w/w (50-00-0)	
Ecology - soil	Toxic to flora.

12.5. Other adverse effects	
Effect on the global warming	: No known effects from this product.
GWPmix comment	: No known effects from this product.
Other information	: Avoid release to the environment.
SECTION 13: Disposal consider	rations
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**

#### **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 Phosphate, Dibasic, Anhydrous (7558-79-4)		
RQ (Reportable quantity, section 304 of EPA's List of Lists)	5000 lb	

15.2. International regulations				
CANADA				
Buffer Solution, Giordano, pH 6.4				
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria			
Water (7732-18-5)				
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria			
Potassium Phosphate, Monobasic (7778-77-0)				
WHMIS Classification	Uncontrolled product according to WHMIS classification criteria			
Formaldehyde, 37% w/w (50-00-0)				
Listed on the Canadian DSL (Domestic Substances 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			
Sodium Phosphate, Dibasic, Anhydrous (7558-79-4)				
Listed on the Canadian DSL (Domestic Substances List)				
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects			

#### **EU-Regulations**

No additional information available

#### National regulations

Formaldehyde, 37% w/w (50-00-0)	
Listed on the Canadian IDL (Ingredient Disclosure List)	
Sodium Phosphate, Dibasic, Anhydrous (7558-79-4)	
Not 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	No significant risk level (NSRL)		
Yes	Yes	No	No	40 µg/day		

SECT	ION 16: Other information		
Revision date		: 12/28/2016	
Other information		: None.	
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	
NFPA health hazard		: 1 - Materials that, under emergency conditions, can cause significant irritation.	
NFPA fire hazard		: 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.	
NFPA reactivity		: 0 - Material that in themselves are normally stable, even under fire conditions.	
HMIS I	II Rating		
Health		: 1 Slight Hazard - Irritation or minor reversible injury possible	
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 - Safety glasses	
Last R	evision Date: 01/01/2019		

#### DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and Dawn scientific Inc assumes no legal responsibility or liability whatsoever resulting from its use.