

# MATERIAL SAFETY DATA SHEET



Buffer Solution, pH10 Clear

## SECTION 1 . Product and Company Identification

Product Name and Synonym: Buffer Solution, pH10 Clear

Product Code: 1526

Material Uses:

Manufacturer:

Aqua Solutions, Inc  
6913 Hwy 225

Deer Park, TX 77536  
(281) 479-2569

Entry Date : 12/1/2014

Print Date: 12/1/2014

24 Hour Emergency Assistance : Chemtrec 800-424-9300  
Canutec 613-996-6666

Health:	1
Flammability:	0
Reactivity:	0

Hazard Rating:  
Least Slight Moderate High Extreme  
0 1 2 3 4  
NA=Not Applicable NE=Not Established

## SECTION 2 HAZARD IDENTIFICATION

Generally not hazardous in normal handling, however good laboratory practices should always be used. Avoid long term exposure to skin or by inhalation.

## SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Inhibitor (Non-mercury)	CAS# 52-51-7	<0.05%	W/W	
<input type="checkbox"/>	Sodium Bicarbonate	CAS# 144-55-8	0.21%	W/W	None Established
<input type="checkbox"/>	Sodium Carbonate Anhydrous	CAS# 497-19-8	0.26%	W/W	None Established
<input type="checkbox"/>	Water, Deionized ASTM Type II	CAS# 7732-18-5	Balance	W/W	None Established

## SECTION 4 FIRST AID MEASURES

Generally not hazardous in normal handling, however good laboratory practices should always be used. Avoid long term exposure to skin or by inhalation.

FIRST AID: SKIN: Wash exposed area with soap and water. If irritation persists, seek medical attention.

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of water. Vomiting may occur, but it is not necessary to induce.

## SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire

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Fire / Explosion Hazards: None  
Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

Absorb spill with inert material. Flush excess down drain.

**SECTION 7 HANDLING AND STORAGE**

Store in a cool dry place. This Material is not considered hazardous. Handle using safe laboratory practices.

**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Respiratory Protection: None required  
Ventilation  
Local Exhaust   
Mechanical   
Protective Gloves: Gloves to prevent skin exposure as rubber or vinyl  
Eye Protection: Safety Glasses w/Side Shields  
Other Protective Equipment: Use safe laboratory handling procedures.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

Melting Point:	~0° C	Percent Volatile by Volume:	> 98%
Boiling Point:	~100° C	Evaporation Rate	Information not available
Vapor Pressure:	Information not available	Evaporation Standard	
Vapor Density:	Information not available	Auto Ignition Temp	Not applicable
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	Colorless odorless liquid	Upper Flamm. Limit in Air	Not applicable
Flash Point:	not flammable		
Specific Gravity:	~1		

**SECTION 10 STABILITY AND REACTIVITY INFORMATION**

Stability: Stable  
Conditions to Avoid: High Temperature, air  
Materials to Avoid: None known  
Hazardous Decomposition Products: Not known to occur  
Hazardous polymerization: Will Not Occur  
Conditions to Avoid: None known

**SECTION 11 Toxicological Information**

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Sodium Bicarbonate

LD50 Oral Rat 4220 mg/kg  
LD50 Oral Mouse 3360 mg/kg

Sodium Carbonate, Anhydrous

LD50 6600 mg/kg Oral Mouse  
LD50 4090 mg/kg Oral Rat  
LDLo 714 mg/kg Oral Man  
LC50 2300 mg/m3 Inhalation Vapor Rat  
LC50 800 mg/m3 Inhalation Vapor Guinea pig

**SECTION 12 Ecological Information**

Sodium Bicarbonate

Acute LC50 9000 mg/L Fish 96 hours  
Acute LC50 8600 mg/L Fish 96 hours  
Acute LC50 8250 mg/L Fish 96 hours  
Acute LC50 8600000 ug/L Fresh water Fish - Bluegill - Lepomis

Sodium Carbonate, Anhydrous

Acute EC50 199.82 to 298.9 mg/L Fresh water Daphnia – Water flea – Ceriodaphnia dubia – Neonate - <24 hours 48 hours  
Acute LC50 320 mg/L Fish 96 hours  
Acute LC50 300 mg/L Fish 96 hours  
Acute LC50 <850 mg/L Fish 96 hours  
Acute LC50 565000 ug/L Fresh Water Daphnia – Water flea –

**SECTION 13 Disposal Considerations**

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

**SECTION 14 Transport Information**

Not regulated

DOT Classification: Not Regulated

DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

**SECTION 15 Regulatory Information**

United States

HCS Classification:  
Target organ effects  
Irritating material

U.S. Federal regulations:

United States inventory (TSCA 8b): listed  
TSCA (Toxic Substance Control Act): This product is listed on the TSCA Inventory.  
SARA 302/304/311/312 extremely hazardous substances: No products were found.  
SARA 302/304 emergency planning and notifications: No products were found.  
SARA 302/304/311/312 hazardous chemicals: No products were found.  
SARA 311/312 MSDS distribution- Chemical inventory- hazard identification: No products were found.  
Clean Water Act (CWA) 307: No products were found  
Clean Water Act (CWA) 311: No products were found  
Clean Air Act (CAA) 112 accidental release prevention: No products were found  
Clean Air Act (CAA) 112 regulated flammable substance: No products were found  
Clean Air Act (CAA) 112 regulated toxic substance: No products were found.

DEA List I Chemicals : not listed  
(Precursor Chemicals)  
DEA List II Chemicals : not listed  
(essential Chemicals)

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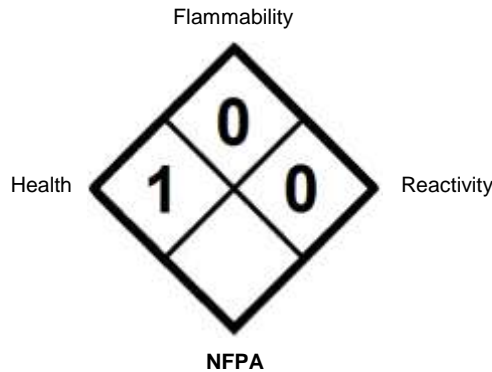
Massachusetts Substance : This material is listed.  
New Jersey Hazardous Substances : This material is listed.  
Pennsylvania RTK Hazardous Substances : This material is listed.

Canada  
WHMIS (Canada) : Not controlled under WHMIS (Canada).

Canadian lists :  
CEPA Toxic Substance: This material is not listed.  
Canadian ARET: This material is not listed.  
Canadian NPRI: This material is not listed.  
Alberta Designated Substances: This material is not listed.  
Ontario Designated Substances: This material is not listed.  
Quebec Designated Substances: This material is not listed.

CEPA DSL/ CEPA NDSL : CEPA DSL:  
This material is listed or exempted.  
This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**SECTION 16 Additional Information**



**Revisions**

0.2 revision date LS

The information herein is believed to be accurate and is offered in good faith for the user's consideration and investigation. No warranty either expressed or implied is made for the completeness or accuracy of the information whether originating from the above mentioned company or not. Users of this material should satisfy themselves by independent investigation of current scientific and medical knowledge that the material can be used safely.