## **Buffer solution pH 4.00**

### Section 1 – PRODUCT AND COMPANY IDENTIFICATION

1. Product Identifier Buffer solution pH 4.00

2. Recommended Use & Uses advised against

Uses for Laboratory and R&D only

3. Information of Supplier SAMCHUN PURE CHEMICAL CO.,LTD

ADDRESS; 117, Sandan-ro, 16beon-gil, Pyungtaek-Si, Gyeonggi-Do, Korea

Emergency Phone; 82-31-668-0700/3 Department; Q/A, Security Control dep. Web site; <a href="http://www.samchun.com">http://www.samchun.com</a>

### Section 2 - HAZARDS and DANGER IDENTIFICATION

1.GHS Classification · Identification Non-described

2. Label and Mark including Precautionary Statement

Non-described oLabel elements

Non-described oSignal word

·Hazard ·Dangerstatement Non-described

oPrecautionary statement

**Precaution** Non-described Measures Non-described Storage Non-described Non-described Dispose

3. Other Hazard-Risk which are not included in the classification criteria

N/A

#### Section 3 – COMPOSITION AND INFORMATION ON INGREDIENTS

<b>Chemical Name</b>	Other Name	CAS No.	Content(%)
Water		7732-18-5	> 98
Potassium hydrogen phthalate	Potassium biphthalate	877-24-7	1 ~ 2
Others			0 ~ 0.1

## Section 4 – FIRST AID MEASURES

1. Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least

15minutes, Immediate medical attention is required.

2. Skin Contact Take off contaminated cloths and shoes immediately, wash with plenty

Of water and soap for at least 15minutes.

3. Inhalation Move to fresh air immediately, if breathing is difficult, induce artificial

respiration and immediate medical treatment is required.

4. Ingestion

Do not induce vomiting and Call a physician immediately.

5. Immediate medical attention and

Notes for physician

If ingestion, consider gastric irrigation and injection of activated carbon

slurry.

#### **Section 5 – FIRE-FIGHT MEASURES**

1. Suitable extinguish media Extinguish Particles powder, CO2, water spray, foam endurable alcohol

2. Special hazards arising from Pyrolysis products; N/A

the substance

3. Special protective equipment and Precautions for fire-fighters

Move a container away from fire place, available not being dangerous Should wear self-contained breathing apparatus, necessary protective

device and if impossible require to withdraw immediately

Cool the container with water spray for long time, after extinguishing Authorized person only, Blockade dangerous area, No trespassing

#### Section 6 – ACCIDENTIAL RELEASE MEASURES

1.Personal precautions and Don't touch leakages and avoid inhale and skin contact, ventilate and

**Emergency procedures** use air respiratory in closed room, remove ignition source.

**2. Environmental precautions**Minimize leak/spill, collect and keep leak/spill in container

3. Methods and material for Soak up with inert absorbent material such as sand, clay or others

Section 7 – HANDING AND STORAGE

containment and cleaning up

1. Precautions for safe Handling Do not breathe vapors/dust, not get in eyes and skin contact

All containers on earth connection.

2. Conditions for safe storage Keep container tightly closed dry and cool store, well-ventilated

Isolate from prohibitive mixture substance

### Section 8 – EXPOSURE CONTROLS AND PERSONAL PROTECTION

## 1.Occupational exposure limit, biological exposure limit

N/A

2. Appropriate Check conditions of exposure criteria, operation local ventilation during work Engineering controls

3. Personal protective equipment

•Respiratory protection Should be licensed ("Safety" mark) to respiratory protection equipment

Air filters type of breathing protector (high-efficiency of fine particles of filter).

Wear organic gas mask, air-supplier respirator or air respirator depend on using

density or in case of non-known density and acute risk of health or life.

•Eye-protection Safety glasses with side-shield keep away from harmful liquids.

Eyewash stations and safety showers are close to the workstation place.

•**Hand protection** Wear appropriate chemical endurance protective gloves.
•**Skin and body** Wear appropriate chemical endurance protective clothing.

proticion

#### Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

1.Physical state	Liquid	2.Color	Colorless
3.Odor	Odorless	4.threshold	N/A
5.pH	4.00	6.Melting/Freezing point	0
7.Boiling point/range(℃)	100	8.Flashing point(℃)	N/A
9.Vapor speed	N/A	10.Flammability(solid,gas)	N/A
11.Explosion limit(lower)	N/A	12.Explosion limit(upper)	N/A
13.Vapor pressure	N/A	14. Water Solubility	Solubility
15. Vapor Density	N/A	16.Gravity	N/A
17. n-octanol-water	N/A	18.self ignition temp(℃)	N/A
Partition coefficient			
19.Cracking temp(℃)	N/A	20. Viscosity	N/A
21. Molecular Weight	N/A		

#### **Section 10 – STABILITY AND REACTIVITY**

**1.Chemical stability** Stable under room temp., and pressure

2. Possibility of Hazardous Not Polymerized

Reactions

3. Conditions to Avoid N/A
 4. Incompatible Materials N/A
 5. Hazardous N/A

**Decomposition Products** 

## Section 11 - TOXICOLOGICAL INFORMAION

1. Information on the likely routes of exposure.

N/A

2. Health hazard information

•Acute toxic N/A

•Skin corrosive / irritant May cause skin irritation
•Serious eye damage / irritation May cause eye irritation

oRespiratory sensitization N/A
oSkin sensitization N/A
oGerm cell Mutagenicity N/A
oReproductive toxic N/A
oCarcinogenicity N/A
oSpecific target organ toxicity N/A

(single exposure )

°Specific target organ toxicity N/A

(repeated exposure )

•Aspiration hazard N/A

## Section 12 – ECOLOGICAL INFORMATION

1.Acquatic and Terrestrial ecotoxicity N/A
2.Persistence and degradability N/A
3.Bioaccumulative potential N/A
4.Mobility in soil N/A
5.Other adverse effects N/A

## Section 13 – Disposable considerations

**1.Waste methods** Dispose in accordance with local regulations.

**2.Waste warning** Isolate waste away from prohibitive mixture substance.

## Section 14 – TRANSPORT INFORMATION

1.UN No.N/A2.Proper shipping NameN/A3.Hazard classN/A4.Packing groupN/A5.Marine pollutnatN/A6.Particular safetyN/A

Measures for transportation

## Section 15 – REGULATARY INFORMATION

1.Occupation safety and health acts Non-described2. National law of management of Harmful Non-described

chemical Substance

3. National law of Safety management of Non-described

hazardous material

4. National law of management of Wastes Non-described

**5.Other domestic and** (EC) regulation: Non-described

foreign law

# Section 16 – OTHER INFORMATION

1. Material source ACROS MSDS(Belgium), Sigma-Aldrich MSDS(US), KOSHA MSDS, KCMA's Chemical

substance data, NEMA's chemical substance data, Chemical goods Dictionary

**2. The 1<sup>st</sup> edition** 2002.07.30

3. Revision

**4. The final revision** 2013.01.25

. Other references

\* N/A: No information or not possible to get related to the data

\* The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.