

# SAFETY DATA SHEET

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### Product Identifier

**Product Name:** Buffer Solution pH 4.01 ± 0.01

**Catalog Number:** 168400

**Chemical Name:** pH buffer

**Chemical Formula:** Not applicable

**Chemical Family:** Not applicable

**Hazard:** Practically non-toxic.

**Date of SDS Preparation:**

**Day:** 29

**Month:** November

**Year:** 2014

### Details of the supplier of the safety data sheet

**Company Name:** Rocker Scientific Co.,Ltd.

**Address:** 6F., No.6, Zhulin Rd., Linkou Dist., New Taipei City 244, Taiwan (R.O.C.)

**Telephone:** + 886-2-26033311

## SECTION 2: HAZARDS IDENTIFICATION

### Emergency Overview

**Appearance:** Clear, red

**liquid Odor:** None

**Label:**



Corrosion



attention

**Potential Health Effects:**

**Eye Contact:** No effects are anticipated

**Skin Contact:** No effects are anticipated

**Skin Absorption:** No effects are anticipated

**Target Organs:** Not applicable

**Ingestion:** No Effects

**Classification of the substance or mixture:** Not a hazardous substance or mixture.

**GHS Label elements, including precautionary statements:** Not a hazardous substance or mixture.

**Hazards not otherwise classified (HNOC) or not covered by GHS:** none

**Classification :**

**Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)**

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****Demineralized Water**

**Percent Range:** >95.0

**Percent Range Units:** weight / weight

**Hazard:** No effects anticipated.

**Other components, each**

**Percent Range:** < 1.0

**Percent Range Units:** volume / volume

**Hazard:** Any ingredient(s) of this product listed as "Other component(s)" is not considered a health hazard to the user of this product.

**Potassium Acid Phthalate**

**TSCA CAS Number:** 877-24-7

**Percent Range:** 1.0 - 5.0

**Percent Range Units:** weight / volume

**Hazard:** May cause irritation.

**SECTION 4: FIRST AID MEASURE**

**Eye Contact:** Flush eyes with water. Call physician if irritation develops.

**Skin Contact (First Aid):** Wash skin with soap and plenty of water.

**Ingestion (First Aid):** Give large quantities of water. Call physician immediately.

**Inhalation:** None required.

## SECTION 5: FIREFIGHTING MEASURES

**Flammable Properties:** Material will not burn.

**Flash Point:** Not applicable

**Method:** Not applicable

**Flammability Limits:**

**Lower Explosion Limits:** Not applicable

**Upper Explosion Limits:** Not applicable

**Autoignition Temperature:** Not applicable

**Hazardous Combustion Products:** Not applicable

**Fire / Explosion Hazards:** None reported

**Static Discharge:** None reported.

**Mechanical Impact:** None reported

**Extinguishing Media:** Use media appropriate to surrounding fire conditions

**Fire Fighting Instruction:** As in any fire, wear self-contained breathing apparatus pressure demand and full protective gear.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Containment Technique:**

Stop all leaks. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Absorb spill with inert material (e.g. dry sand, earth).

**Clean-up Technique:**

Absorb spilled liquid with non-reactive sorbent material. Place material in a plastic bag. Mark bag 'Non-hazardous trash', and dispose of as normal refuse.

## SECTION 7: HANDLING AND STORAGE

**Handling:** Avoid contact with eyes Wash thoroughly after handling.

**Storage:** Keep container tightly closed when not in use.

**Flammability Class:** Not applicable

## SECTION 8: EXPOSURE CONTROLS / PERSONAL EQUIPMENT

**Engineering Controls:** Maintain general industrial hygiene practices when using this product.

**Personal Protective Equipment:** None

**Eye Protection:** safety glasses with top and side shields

**Skin Protection:** disposable latex gloves

**Inhalation Protection:** adequate ventilation

**Precautionary Measures:** Avoid contact with: eyes Wash thoroughly after handling.

## SECTION 9: PHYSICAL / CHEMICAL PROPERTIES

**Appearance:** Clear, red liquid

**Physical State:** Liquid

**Odor:** None

**pH:** 4.01

**Flash Point:** Not applicable

**Boiling Point:** 100 °C (212 °F)

**Melting Point:** < 0 °C (< 32 °F)

**Specific Gravity (water = 1):** 1.002 ned

**Solubility:**

**Water:** Soluble

**Acid:** Soluble

**Other:** Not determined

**Metal Corrosivity:** Not determined

## SECTION 10: STABILITY AND REACTIVITY

**Chemical Stability:** Stable when stored under proper conditions.

**Conditions to Avoid:** Extreme temperatures

**Reactivity / Incompatibility:** None reported

**Hazardous Decomposition:** None reported.

## SECTION 11: TOXICOLOGICAL INFORMATION

**Product Toxicological Data: LD50:** None reported

**Skin and Eye Irritation Data:** None reported

**Mutation Data:** None reported

**Reproductive Effects Data:** None reported

## SECTION 12: ECOLOGICAL INFORMATION

**Product Ecological Information:** No ecological data available for this product.

**Ingredient Ecological Information:** No ecological data available for the ingredients of this product.

## SECTION 13: DISPOSAL CONSIDERATIONS

**EPA Waste ID Number:** None

**Special Instructions (Disposal):** Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate. Open cold water tap completely, slowly pour the reacted material to the drain.

**Empty Containers:** Rinse three times with an appropriate solvent. Dispose of empty container as normal trash.

**NOTICE (Disposal):** These disposal guidelines are based on federal regulations and may be superseded by more stringent state or local requirements. Please consult your local environmental regulators for more information.

## SECTION 14: TRANSPORT INFORMATION

### D.O.T.:

**D.O.T. Proper Shipping Name:** Not Currently Regulated

**DOT Hazard Class:** NA

**DOT Subsidiary Risk:** NA

**DOT ID Number:** NA

**DOT Packing Group:** NA

### I.A.T.A

**IATA Proper Shipping Name:** Not Currently Regulated

**IATA Hazard Class:** NA

**IATA Subsidiary Risk:** NA

**IATA ID Number:** NA

**IATA Packing Group:** NA

### I.C.A.O.:

**I.C.A.O. Proper Shipping Name:** Not Currently Regulated

**ICAO Hazard Class:** NA

**ICAO Subsidiary Risk:** NA

ICAO ID Number: NA

ICAO Packing Group: NA

**I.M.O.:**

**I.M.O. Proper Shipping Name:** Not Currently Regulated

**I.M.O. Hazard Class:** NA

**I.M.O. Subsidiary Risk:** NA

**I.M.O. ID Number:** NA

**I.M.O. Packing Group:** NA

## SECTION 15: REGULATORY INFORMATION

**U.S. Federal Regulations:**

**O.S.H.A.:**

This product does not meet the criteria for a hazardous substance as defined in the Hazard Communication Standard. (29 CFR 1910.1200)

**E.P.A.:**

**S.A.R.A. Title III Section 311/312 Categorization (40 CFR 370):** This product is not hazardous under 29 CFR.1910.1200 and therefore is not covered by Title III under SARA.

**S.A.R.A. Title III Section 313 (40 CFR 372):** This product does NOT contain any chemical subject to the reporting requirements of Section 313 of Title III of SARA.

## SECTION 16: OTHER INFORMATION

**Intended Use:** Buffer

**References:**

29 CFR 1900 - 1910 (Code of Federal Regulations - Labor).

Air Contaminants, Federal Register, Vol. 54, No. 12. Thursday, January 19, 1989. pp. 2332-2983. TLV's Threshold Limit Values and Biological Exposure Indices for

**Legend:**

NA - Not Applicable w/w - weight/weight

ND - Not Determined w/v - weight/volume

NV - Not Available v/v - volume/volume

**USER RESPONSIBILITY:**

Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

**This information was compiled from current manufacturer's SDS's of the component parts of the product.**

**Disclaimer: The Manufacturer believes that the information contained in the Material Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.**