

Rocker Scientific Co.,Ltd.
Add. : 11F,NO.402,SEC1,REN-AI RD.,
LINKOU SHIANG,TAIPEI COUNTY 244,
TAIWAN(R.O.C)
Tel : 886-2-26033311
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MSDS No: M168001

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Buffer Solution pH 7.00 ± 0.01
Catalog Number:168700

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MSDS Number: M168001
Chemical Name: *pH buffer*
Chemical Formula: Not applicable
Chemical Family: Not applicable
Hazard: Practically non-toxic.
Date of MSDS Preparation:
Day:3
Month: November
Year: 2009

2. COMPOSITION / INFORMATION ON INGREDIENTS

Potassium Phosphate, Monobasic

Percent Range: < 1.0
Percent Range Units: weight / weight
Hazard: May cause irritation.

Demineralized Water

Percent Range: >95.0
Percent Range Units: volume / volume
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.

Sodium Phosphate, Dibasic

Percent Range: < 1.0
Percent Range Units: weight / weight
Hazard: May cause irritation.

3. HAZARDS IDENTIFICATION

Emergency Overview:

Appearance: yellow and clear liquid
Odor: No
Potential Health Effects:
Eye Contact: No effects anticipated
Skin Contact: No effects anticipated
Medical Conditions Aggravated: None reported
Chronic Effects: No effects anticipated

4. FIRST AID

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

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

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

Inhalation: None required.

5. FIRE FIGHTING 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: None

reported **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.

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.

7. HANDLING / STORAGE

Handling: Avoid contact with eyes Wash thoroughly after handling. **Storage:** Protect from: heat

Keep container tightly closed when not in use.

Flammability Class: Not applicable

8. EXPOSURE CONTROLS / PROTECTIVE EQUIPMENT

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

Personal Protective Equipment:

Eye Protection: safety glasses with top and side shields

Skin Protection: Not applicable

Inhalation Protection: adequate ventilation

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

9. PHYSICAL / CHEMICAL PROPERTIES

Appearance: Yellow and clear, liquid

Physical State: Liquid

Molecular Weight: Not applicable

Odor: None

pH: 7.0 at 25°C

Vapor Pressure: Not determined

Vapor Density (air = 1): Not determined

Boiling Point: ~100°C

(~212°F) **Melting Point:** ~0°C

(~32°F) **Specific Gravity**

(water = 1): ~1.0

Solubility:

Water: Soluble

Acid: Soluble

Other: Not determined

Metal Corrosivity: Not determined

10. STABILITY / REACTIVITY

Chemical Stability: Stable (be stored under proper conditions).

Conditions to Avoid: Heat Evaporation

Reactivity / Incompatibility: None

reported **Hazardous Decomposition:**

None reported

11. TOXICOLOGICAL INFORMATION

Product Toxicological

Data: LD50: None

reported **LC50:** None

reported

Dermal Toxicity Data: None reported

Skin and Eye Irritation Data: None reported

Mutation Data: None reported

Reproductive Effects Data: None

reported **Ingredient Toxicological Data:**

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No toxicological data available for the ingredients of this product.

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.

13. DISPOSAL CONSIDERATIONS

EPA Waste ID Number: None

Special Instructions (Disposal): Open cold water tap completely, slowly pour the 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.

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.C.A.O.:

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

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ICAO Hazard Class: NA
ICAO Subsidiary Risk: NA
ICAO ID Number: 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

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.

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 MSDS'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.

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