

# **Safety Data Sheet**

Issue Date: 15-Feb-2012 Revision Date: 8-Dec-2016 Version 1

# 1. IDENTIFICATION

**Product Identifier** 

Product Name HYDRION BUFFER pH 10.00

Other means of identification

**SDS #** MEL-003

Recommended use of the chemical and restrictions on use

**Recommended Use** For preparation of buffer standards in distilled water.

Details of the supplier of the safety data sheet

**Supplier Address** 

MICRO ESSENTIAL LABORATORY, INC PO BOX 100824, 4224 AVENUE H BROOKLYN, NY 11210

**Emergency Telephone Number** 

Company Phone Number PHONE: 718-338-3618 FAX: 718-692-4491 (8:00AM TO 4:00PM EASTERN STANDARD

TIME)

Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)

1-800-535-5053 (North America)

# 2. HAZARDS IDENTIFICATION

Appearance White to off white Granules, Physical State Solid Odor Odorless

crystals or powder

#### Classification

| Acute toxicity - Inhalation (Dusts/Mists) | Category 4 |
|---|------------|
| Serious eye damage/eye irritation         | Category 2 |

## Hazards Not Otherwise Classified (HNOC)

May be harmful if swallowed

# Signal Word Warning

#### **Hazard Statements**

Harmful if inhaled Causes serious eye irritation



#### **Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wash face, hands and any exposed skin thoroughly after handling Wear eye/face protection

### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a poison center or doctor/physician if you feel unwell

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name      | CAS No   | Weight-% |
|--------------------|----------|----------|
| Sodium carbonate   | 497-19-8 | 50-70    |
| Sodium Bicarbonate | 144-55-8 | 30-50    |

<sup>\*\*</sup>If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

## 4. FIRST-AID MEASURES

## **First Aid Measures**

**Eye Contact** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. If eye irritation persists: Get medical

advice/attention.

Skin Contact Wash affected areas thoroughly with soap and water for at least 15 minutes. Get medical

attention if necessary.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If

breathing is difficult, give oxygen. Call a poison center or doctor/physician if you feel unwell.

Ingestion Drink plenty of water. Do not induce vomiting without medical advice. Get medical attention

if necessary.

#### Most important symptoms and effects

**Symptoms** Dust may be irritating to eyes. Prolonged skin contact may cause skin irritation or allergic

reaction. The eye irritation may be severe. Ingestion can irritate stomach and cause mouth burns. Prolonged exposure by inhalation may cause irritation of the nose, throat and respiratory tract. Prolonged exposure to BULK POWDER may cause irritation to the eyes,

skin and respiratory system.

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

# 5. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

#### **Specific Hazards Arising from the Chemical**

Non-flammable.

Hazardous Combustion Products Toxic fumes of carbon monoxide or irritant smoke.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Do not release runoff from fire control methods to sewers or waterways.

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Use personal protective equipment as required. Keep unnecessary people away, isolate

hazard area and deny entry. Restrict access to area until completion of clean-up. Ensure

clean-up is conducted by trained personnel only.

**Environmental Precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See

Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

### Methods and material for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Cover spilled material with a dry acid, such as Citric or Boric. Scoop up into a large beaker. **Methods for Clean-Up** 

Adjust pH between 6 and 9 with a diluted acid, such as Sulfuric or Citric. Flush reacted material to the drain with a large excess of water but ONLY if permitted by local authorities

and regulations. If not permitted, must be disposed of as a RCRA waste.

### 7. HANDLING AND STORAGE

## Precautions for safe handling

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Use personal

protection recommended in Section 8. The following precautions pertain only to BULK POWDER handling:

Ventilation: Use adequate general or local ventilation to keep fume and dust levels as low

as possible

Respiratory Protection: Use NIOSH approved dust respirator when handling bulk powder Eye Protection: Chemical splash goggles with side shields when handling bulk powder Gloves: Natural rubber, butyl neoprene or equivalent. Wear full cover clothing when handling bulk powder. Do not breathe dust. Avoid contact with skin, eyes or clothing. Wash

face, hands and any exposed skin thoroughly after handling. Do NOT take internally.

# Conditions for safe storage, including any incompatibilities

Keep container tightly closed and store in a cool, dry and well-ventilated place. Avoid **Storage Conditions** 

excessive temperatures & high humidity.

**Incompatible Materials** Hazardous reaction in aqueous solution may occur with strong acid, aluminum, fluorine,

phosphorus pentoxide and ammonium phosphate monobasic.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

This product, as supplied, does not contain any hazardous materials with occupational **Exposure Guidelines** 

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

Local exhaust ventilation recommended.

Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

> OSHA's eye and face protection regulations in 29 CFR 1910.133. Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in

conjunction with, contact lenses.

**Skin and Body Protection** Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or

repeated skin contact.

**Respiratory Protection** Seek professional advice prior to respirator selection and use. Select respirator based on its

> suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. WARNING!: Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning,

and convenient, sanitary storage areas.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Contaminated

Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment. Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

**Physical State** Solid

**Appearance** White to off white Granules, crystals or Odor Odorless

powder

Color White to off white **Odor Threshold** Not determined

Values **Property** Remarks • Method

10.00 @ 25 °C (77 °F)

**Melting Point/Freezing Point** Not determined **Boiling Point/Boiling Range** 100 °C / 212 °F Flash Point Non-flammable

**Evaporation Rate** Not determined Flammability (Solid, Gas) Not determined **Upper Flammability Limits** Not determined **Lower Flammability Limit** Not determined **Vapor Pressure** Not determined **Vapor Density** Not determined

**Specific Gravity** (1=Water) @ 4°C

**Water Solubility** Miscible in water Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined

**Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidizing Properties** Not determined

Molecular weight Sodium Carbonate 105.99 grams Sodium Bicarbonate 84.01 grams

# 10. STABILITY AND REACTIVITY

#### Reactivity

Not reactive under normal conditions.

## **Chemical Stability**

Stable under recommended storage conditions.

## **Possibility of Hazardous Reactions**

See below - Incompatible Materials.

**Hazardous Polymerization** Hazardous polymerization does not occur.

#### **Conditions to Avoid**

Keep out of reach of children.

#### **Incompatible Materials**

Hazardous reaction in aqueous solution may occur with strong acid, aluminum, fluorine, phosphorus pentoxide and ammonium phosphate monobasic.

## **Hazardous Decomposition Products**

Toxic fumes of carbon monoxide or irritant smoke.

## 11. TOXICOLOGICAL INFORMATION

# Information on likely routes of exposure

**Product Information** 

**Eye Contact** Causes serious eye irritation.

**Skin Contact** Avoid contact with skin.

Inhalation Harmful if inhaled.

Ingestion May be harmful if swallowed.

### **Component Information**

| Chemical Name                  | Oral LD50            | Dermal LD50 | Inhalation LC50 |
|--------------------------------|----------------------|-------------|-----------------|
| Sodium carbonate<br>497-19-8   | = 4090 mg/kg (Rat)   | -           | -               |
| Sodium Bicarbonate<br>144-55-8 | = 4220 mg/kg ( Rat ) | -           | -               |

## Information on physical, chemical and toxicological effects

**Symptoms** Please see section 4 of this SDS for symptoms.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

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This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

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IARC or NTP.

## **Numerical measures of toxicity**

Carcinogenicity

Not determined

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

# **Component Information**

| Chemical Name                  | Algae/aquatic plants                       | Fish   | Toxicity to    | Crustacea                             |
|--------------------------------|--|--|----------------|---------------------------------------|
|                                |  |  | microorganisms |                                       |
| Sodium carbonate<br>497-19-8   | 242: 120 h Nitzschia mg/L<br>EC50          | 300: 96 h Lepomis<br>macrochirus mg/L LC50<br>static 310 - 1220: 96 h<br>Pimephales promelas mg/L<br>LC50 static |                | 265: 48 h Daphnia magna<br>mg/L EC50  |
| Sodium Bicarbonate<br>144-55-8 | 650: 120 h Nitzschia linearis<br>mg/L EC50 | 8250 - 9000: 96 h Lepomis<br>macrochirus mg/L LC50<br>static   |                | 2350: 48 h Daphnia magna<br>mg/L EC50 |

### Persistence/Degradability

Not determined.

## **Bioaccumulation**

Not determined.

#### Mobility

Not determined

# **Other Adverse Effects**

Not determined

# 13. DISPOSAL CONSIDERATIONS

## **Waste Treatment Methods**

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

<u>California Hazardous Waste Status</u> This product contains one or more substances that are listed with the State of California as a hazardous waste

| Chemical Name    | California Hazardous Waste Status |
|------------------|-----------------------------------|
| Sodium carbonate | Corrosive                         |
| 497-19-8         |                                   |

14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including

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exemptions and special circumstances.

**DOT** Not regulated

IATA Not regulated

IMDG Not regulated

# 15. REGULATORY INFORMATION

#### **International Inventories**

Not determined

#### Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

#### US Federal Regulations

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

## **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

## **CWA (Clean Water Act)**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **US State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

## U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

# **16. OTHER INFORMATION**

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NFPAHealth HazardsFlammabilityInstabilitySpecial Hazards200Not determinedHMISHealth HazardsFlammabilityPhysical HazardsPersonal Protection200Not determined

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## **Disclaimer**

The information provided in 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

**End of Safety Data Sheet**