

## **Safety Data Sheet**

Issue Date: 15-Feb-2012 Revision Date: 12-Aug-2019 Version 2

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

#### 1.1. Product Identifier

SDS # MEL-003-EU

Product Name HYDRION BUFFER pH-10.00

Contains Sodium carbonate

Molecular weight Sodium Carbonate 105.99 grams Sodium Bicarbonate 84.01 grams

1.2. Relevant identified uses of the substance or mixture and uses advised against

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

1.3. Details of the Supplier of the Safety Data Sheet

<u>Supplier</u>

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

For further information, please contact

Contact Point Micro Essential Laboratory Inc. 718-338-3618

Email Address <u>custserv@microessentiallab.com</u>

1.4. Emergency telephone number

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

1-800-535-5053 (North America)

## **Section 2: HAZARDS IDENTIFICATION**

### 2.1. Classification of the Substance or Mixture

Regulation (EC) No 1272/2008

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 2 - (H319)

#### 2.2. Label Elements

**Product Identifier** 

Contains Sodium carbonate



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#### Hazard statements

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

#### Precautionary Statements - EU (§28, 1272/2008)

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P271 - Use only outdoors or in a well-ventilated area

P280 - Wear eye protection/ face protection

P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P312 - Call a POISON CENTER or doctor if you feel unwell

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention

#### 2.3. Other Hazards

No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.2 MIXTURES

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Sodium carbonate	Present	497-19-8	50-70	Eye Irrit. 2 (H319)	Not determined

#### Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration >=0.1% (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## **Section 4: FIRST AID MEASURES**

## 4.1. Description of 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.

## 4.2. Most Important Symptoms and Effects, Both Acute and Delayed

**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.

## 4.3. Indication of any Immediate Medical Attention and Special Treatment Needed

Notes to Physician Treat symptomatically.

## Section 5: FIREFIGHTING MEASURES

#### 5.1. Extinguishing Media

#### Suitable Extinguishing Media

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

#### **Unsuitable Extinguishing Media**

Not determined.

#### 5.2. Special Hazards Arising from the Substance or Mixture

Non-flammable.

#### 5.3. Advice for Firefighters

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required. Do not release runoff from fire control methods to sewers or waterways.

### Section 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. 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.

#### For Emergency Responders

Use personal protection recommended in Section 8.

#### 6.2. Environmental Precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

#### 6.3. 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 hazardous waste.

#### 6.4. Reference to Other Sections

See Section 13: DISPOSAL CONSIDERATIONS.

## **Section 7: HANDLING AND STORAGE**

#### 7.1. 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. 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. 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 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.

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#### **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.

#### 7.2. Conditions for Safe Storage, Including any Incompatibilities

#### **Storage Conditions**

Keep container tightly closed and store in a cool, dry and well-ventilated place. Avoid excessive temperatures & high humidity.

### 7.3. Specific End Use(s)

#### Specific Use(s)

For preparation of buffer standards in distilled water.

#### **Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control Parameters

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

exposure limits established by the region-specific regulatory bodies.

8.2. Exposure Controls

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

Local exhaust ventilation recommended.

**Personal Protective Equipment** 

**Eye/Face Protection** Use approved safety goggles or safety glasses. If necessary, refer to appropriate

regulations and standards. Contact lenses are not eye protective devices. Appropriate eye

protection must be worn instead of, or in conjunction with, contact lenses.

**Hand Protection** 

Use chemical resistant gloves for prolonged skin contact.

**Skin and Body Protection Respiratory Protection** 

Gloves and protective clothing should be worn to prevent prolonged skin contact.

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.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

**Physical state** Solid

**Appearance** White to off white Granules, crystals or Odour Odourless

powder

White to off white **Odour Threshold** Colour Not determined

**Property** Values Remarks • Method

10.00 Hq

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

Flammability Limit in Air

Upper flammability or explosive Not determined

limits

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Values Remarks • Method Property Lower flammability or explosive Not determined

limits

Vapour Pressure Not determined **Vapour Density** Not determined

**Relative Density** @ 60°F (ASTM D 1298)

**Water Solubility** Miscible in water Solubility(ies) Not determined **Partition Coefficient** Not determined **Autoignition temperature** Not determined **Decomposition temperature** Not determined Kinematic viscosity Not determined **Dynamic Viscosity** Not determined **Explosive Properties** Not determined **Oxidising Properties** Not determined

9.2. Other information

Molecular weight Sodium Carbonate 105.99 grams Sodium Bicarbonate 84.01 grams

## **Section 10: STABILITY AND REACTIVITY**

#### 10.1. Reactivity

Not reactive under normal conditions.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of Hazardous Reactions

#### **Hazardous Polymerisation**

Hazardous polymerisation does not occur.

## **Possibility of Hazardous Reactions**

See below - Incompatible Materials.

#### 10.4. Conditions to Avoid

Keep out of reach of children.

## 10.5. Incompatible Materials

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

#### 10.6. Hazardous Decomposition Products

Toxic fumes of carbon monoxide or irritant smoke.

### Section 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects

#### **Acute toxicity**

## **Product Information**

Inhalation Harmful if inhaled. **Eye Contact** Avoid contact with eyes. **Skin Contact** Avoid contact with skin. Ingestion May be harmful if swallowed.

#### The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 4,141.00 mg/kg ATEmix (inhalation-dust/mist) 2.50 mg/L

#### Unknown Acute Toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity.

- 0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).
- 0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

#### **Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium carbonate	= 4090 mg/kg (Rat)		
Sodium Bicarbonate	= 4220 mg/kg (Rat)		

Skin corrosion/irritation Not classified.

Serious eye damage/eye irritation Causes serious eye irritation.

Sensitisation Not classified.

Germ cell mutagenicity Not classified.

Carcinogenicity Not classified.

Reproductive toxicity Not classified.

STOT - single exposure Not classified.

STOT - repeated exposure Not classified.

Aspiration hazard Not classified.

## **Section 12: ECOLOGICAL INFORMATION**

## 12.1. Toxicity

This product can be harmful or fatal to contaminated aquatic plant or animal life, especially if released in a large quantity in a body of water.

Chemical name	Algae/aquatic plants	Fish	Crustacea
Sodium carbonate	242: 120 h Nitzschia mg/L EC50	300: 96 h Lepomis macrochirus	265: 48 h Daphnia magna mg/L
		mg/L LC50 static 310 - 1220: 96 h	EC50
		Pimephales promelas mg/L LC50	
		static	

#### 12.2. Persistence and Degradability

Not determined.

#### 12.3. Bioaccumulative Potential

There is no data for this product.

#### 12.4. Mobility in Soil

#### **Mobility**

Not determined.

#### 12.5. Results of PBT and vPvB Assessment

Not determined.

## 12.6. Other Adverse Effects

Not determined.

## **Section 13: DISPOSAL CONSIDERATIONS**

#### 13.1. Waste Treatment Methods

Waste from residues/unused

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

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**products** regulations.

Contaminated Packaging Improper disposal or reuse of this container may be dangerous and illegal.

### **Section 14: TRANSPORT INFORMATION**

**IMDG** 

14.2 Proper Shipping Name Not regulated

<u>RID</u>

14.2 Proper Shipping Name Not regulated

<u>ADR</u>

14.2 Proper Shipping Name Not regulated

IATA

14.2 Proper Shipping Name Not regulated

## **Section 15: REGULATORY INFORMATION**

## 15.1. Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

## European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

## Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

### **Persistent Organic Pollutants**

Not applicable

## Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

## **International Inventories**

Component	TSCA	DSL/NDSL	EINECS/ELIN CS	PICCS	ENCS	IECSC	AICS	KECL
Sodium carbonate 497-19-8 (50-70)	X	Х	Х	Х	Х	Х	X	Х
Sodium Bicarbonate 144-55-8 (30-50)	X	Х	Х	Х	Х	Х	X	Х

#### Legend

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

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

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

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

#### 15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

## **Section 16: OTHER INFORMATION**

#### Full text of H-Statements referred to under section 3

H319 - Causes serious eye irritation

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

Ceiling Maximum limit value \* Skin designation

#### **Classification Procedure**

Calculation method

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**Revision Note:** Regulatory review.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2015/830

#### **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**