RCI Labscan Limited

# SAFETY DATA SHEET

According to Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
Revision Date Jun 20, 2021

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

**1.1 Product identifier**

| | |
|---|---|
| Product name | BUFFER SOLUTION pH 4.0 |
| CAS-No. | - |
| Product code | GN1017 |

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

| | |
|---|---|
| Identified uses | Chemical for analysis and production. |

**1.3 Details of the supplier of the safety data sheet**

| | |
|---|---|
| Company | RCI LABSCAN LIMITED.<br>24 Rama 1 Road, Pathumwan, Bangkok 10330 Thailand |
| Telephone number | (662) 613-7911-4 |
| Fax number | (662) 613-7915 |

**1.4 Emergency Telephone Number**

| | |
|---|---|
| Emergency phone | (662) 613-7911-4 |

## SECTION 2: Hazards identification

**2.1 Classification of the substance or mixture**

This substance is not hazardous according to Regulation (EC) No. 1272/2008 and Directive 67/548/EEC.

**2.2 Label elements**

**Labelling according Regulation (EC) No 1272/2008**

This substance is not need to be labelled in according to Regulation (EC) No. 1272/2008.

**2.3 Other hazards** None

## SECTION 3: Composition/information on ingredients

**3.1 Substances**

Not applicable

**3.2 Mixture**

| Component | CAS-No | Formula | Weight % | Classification |
|---|---|---|---|---|
| Water | 7732-18-5 | $H_2O$ | 97-99 | - |
| Citric acid monohydrate | 5949-29-1 | $C_6H_8O_7.H_2O$ | 1.0-3.0 | Eye irritation (Category 2), H319 |
| Sodium hydroxide | 1310-73-2 | NaOH | 0.1-0.5 | Corrosive to metals (Category 1), H290<br>Skin corrosion (Category 1A), H314 |
| Sodium chloride | 7647-14-5 | NaCl | 0.1-0.5 | - |

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

**4.1 Description of first aid measures**

General advice Show this safety data sheet to the doctor in attendance.

| | |
|---|---|
| Inhalation | Move to fresh air in case of accidental inhalation of dust. Keep patient warm. In case of shortness of breath, give oxygen. Apply artificial respiration only if patient is not breathing or under medical supervision. No artificial aspiration mouth to mouth or mouth to nose. Use suitable instruments/apparatus. |
| Skin contact | Remove contaminated clothing and wash affected skin with soap and water. Obtain medical attention. |
| Eye contact | If the substance has got into the eyes, immediately wash out with plenty of water at least 15 minutes. Obtain medical attention. |
| Ingestion | Rinse mouth. After swallowing make victim drink water (two glasses at the most), call in physician. Do not attempt to neutralize. |

**4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in section 2.2 and section 11

**4.3 Indication of any immediate medical attention and special treatment needed**

Not Available

## SECTION 5: Firefighting measures

**5.1 Extinguishing media**

**Suitable extinguishing media**

In adaption to materials stored in the immediate neighborhood.

**5.2 Special hazards arising from the substance or mixture**

Non-combustible. Ambient fire may liberate hazardous vapors.

**5.3 Advice for firefighters**

Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

**5.4 Further information**

Contain escaping vapors with water. Prevent fire-fighting water from entering surface water or ground water.

## SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Do not breathe vapors or spray mist. Wear a positive-pressure supplied-air respirator, flame retardant antistatic protective clothing. Shut off leaks if without risk. Keep people away from and upwind of spill/leak.

**6.2 Environmental precautions**

Contain or absorb leaking liquid with sand or earth, consults an expert. Prevent liquid entering sewers, basements and workpits. If substance has entered a water course or sewer or contaminated soil, advise police.

**6.3 Methods and materials for containment and cleaning up**

Spillage : soak up with inert absorbent material (e.g. sand, silica gel or chemical absorbent pads). Prevent liquid entering sewers, basements and workpits. Transfer to covered drums. Dispose of promptly.

**6.4 Reference to other sections**

For disposal see **Section 13**.

## SECTION 7: Handling and storage

**7.1 Precautions for safe handling**

Provision of good ventilation in working area. Do not leave container open. Avoid spillage.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep tightly closed in a dry, cool and well-ventilated place. Keep out of direct sunlight and away from heat, water and incompatible materials.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

**8.1 Control parameters**

**8.2 Exposure controls**

**Appropriate engineering controls**

The product should only be used in ventilation hoods and fans.

**Individual protection measures (Personal protective equipment, PPE)**

**Eye/face protection**

Goggles giving complete protection to eyes.

**Skin protection**

Chemical resistant apron / corrosive protective clothing, heavy duty work shoes.

Handle with gloves

- Full contact wears gloves from nitrile rubber material.
- Splash contact wears gloves from nitrile rubber material.

The select protective gloves have to satisfy the specifications of EU Directive 89/686 EEC and standard EN 374 derived from it.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment. Required when vapor/aerosols are generated filter ABEK (EN 141 or EN 14387).

**Environmental exposure controls**

Prevent liquid entering sewers, basements and workpits.

## SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties**

| | |
|---|---|
| Appearance: Form | Liquid |
| : Color | Red |
| Odour | Odorless |
| Odour Threshold | Not Available |
| pH | 4.00 ±0.02 at 25ºC |
| Melting point/range | Not Available |
| Boiling point/range | Not Available |
| Flash point | Not Available |
| Evaporation rate | Not Available |
| Flammability (solid, gas) | Not Available |
| Explosion limits: lower | Not Available |
| upper | Not Available |
| Vapor Pressure | Not Available |

| | |
|---|---|
| Relative Vapor Density | Not Available |
| Density | Not Available |
| Water solubility | Soluble at 20ºC |
| Partition coefficient (n-octanol/water) | Not Available |
| Auto-Ignition temperature | Not Available |
| Decomposition Temperature | Not Available |
| Viscosity | Not Available |
| Explosive properties | Not Explosive |
| Oxidizing properties | The substance or mixture is not classified as oxidizing. |

## SECTION 10: Stability and reactivity

**10.1 Reactivity**

Not Available

**10.2 Chemical stability**

Stable under recommended storage conditions.

**10.3 Possibility of hazardous reactions**

Not Available

**10.4 Conditions to avoid**

Not Available

**10.5 Incompatible materials**

The generally known reaction partners of water.

**10.6 Hazardous decomposition products**

Not Available

## SECTION 11: Toxicological information

**11.1 Information on toxicological effects**

**Mixture**

**Acute toxicity**

Not Available

**Acute oral toxicity**

Not Available

**Acute inhalation toxicity**

Not Available

**Skin corrosion/irritation**

Not Available

**Serious eye damage/eye irritation**

Not Available

**Respiratory or skin sensitization**

Not Available

**Germ cell mutagenicity**

Not Available

**Carcinogenicity**
Not Available

**Reproductive toxicity**
Not Available

**Teratogenicity**
Not Available

**Specific target organ toxicity (STOT) - single exposure**
Not Available

**Specific target organ toxicity (STOT) - repeated exposure**
Not Available

**Aspiration hazard**
Not Available

**Further information**
The product should be handled with the care usual when dealing with chemicals.

## SECTION 12: Ecological information

**Mixture**

**12.1 Toxicity**
Not Available

**12.2 Persistence and degradability**

| | |
|---|---|
| Biodegradability | Not Available |

**12.3 Bioaccumulative potential**

| | |
|---|---|
| Partition coefficient (n-octanol/water) | Not Available |

**12.4 Mobility in soil**
Not Available

**12.5 Other adverse effects**
Do not allow to enter waters, waste water or soil.

## SECTION 13: Disposal considerations

**13.1 Waste treatment methods**

**Product**
There are no uniform EC Regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding law and regulations. We recommend that you contact either the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste or burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations.

**Contaminated packaging**
Disposal in compliance with official regulations. Handle contaminated packaging as hazardous waste in the same way of the substance itself. If not officially specified differently, non-contaminated packaging may be treated like household waste or recycled.

## SECTION 14: Transport information

Not subject to transport regulations.

## SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Not Available

**15.2 Chemical Safety Assessment**

For this product a chemical safety assessment was not carried out.

## SECTION 16: Other information

**Full text of H-Statements referred to under sections 2 and 3**

| | |
|---|---|
| H290 | May be corrosive to metals. |
| H314 | Causes severe skin burns and eye damage. |
| H319 | Causes serious eye irritation. |

**Reference**

Globally Harmonized System of Classification and Labelling of Chemicals (GHS).
Labelling according to EC Directives 67/548 EEC and Regulation (EC) No 1272/2008.
Transportation information according to Recommendations on the Transport of Dangerous Goods, Model Regulations. Twelfth revised edition. United Nations.
Institute for Occupational Safety and Health of the German Social Accident Insurance in Sankt Augustin/Germany, Source: IFA for Databases on hazardous substances (GESTIS).

**Further information**

Contact to RCI Labscan Limited.

**Revision Date**

20/06/2021