

BUFFER Solution pH 4.01

CAT NO : RMR-2204
Version No: 2204.2.00

Issue Date: 01/09/2023

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1 : IDENTIFICATION

1.1 Product Identifier

Product name	BUFFER pH 4.01
CAT No	RMR-2204
CAS No	-----
HS code	3822,9000000
Proper shipping name	Acidic, Mixture

1.2 Recommended use of the chemical and restrictions on use

Relevant identified uses	Calibration of pH Electrodes, Laboratory Use, For Professional use only
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1.3 Details of the supplier of the safety data sheet

Registered company Name	Research Chem Limited
Address	Dhaka, Bangladesh
Telephone	Not Available
Fax	Not Available
Website	www.researchchem.com.bd , www.keenkits.com
E-mail	info@keenkits.com

SECTION 2 : HAZARD(S) IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture

Classification	Acidic
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2.2 Label elements

Hazard pictogram (s)	No GHS
Signal Word	No data available

2.5 Precautionary statement(s) Storage

P404+P411 + P235	Store at temperatures not exceeding 10°C to 30°C. Keep cool.
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SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substances

Formula : Mixture with fungicidal.

Chemical Name	CAS No
Citric acid	77-92-9
tri-Sodium Citrate	6132-04-3

SECTION 4 : FIRST-AID MEASURES

4.1 : Description of first aid measures

Eye Contact	After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist. Remove contact lenses.
Skin Contact	In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. Call a physician immediately..
Inhalation	After inhalation: fresh air. Call in physician.
Swallowed	After swallowing: make victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralize.

SECTION 5 : FIRE-FIGHTING MEASURES

5.1 Fire

Not Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 : Extinguishing media

Use any means suitable for extinguishing surrounding fire.

5.3 : Special hazards arising from explosion

The product itself does not burn

5.4 : Special protective equipment and precautions for fire-fighters

Wear self-contained breathing apparatus and protective suit.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

6.1 : Personal precautions, protective equipment and emergency procedures

Evacuate personnel to safe areas. Wear personal protective equipment. Unprotected persons must be kept away. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

6.2 : Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3 : Methods and material for containment and cleaning up

Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

SECTION 7 : HANDLING AND STORAGE

7.1 : Precautions for safe handling

Safe handling	<ul style="list-style-type: none">• Avoid all personal contact, including inhalation.• Wear protective clothing when risk of exposure occurs.• Use in a well-ventilated area.• DO NOT allow clothing wet with material to stay in contact with skin
Other information	<ul style="list-style-type: none">• Store in original containers.• Keep containers securely sealed.• Store in a cool, dry, well-ventilated area.

7.2 : Conditions for safe storage, including any incompatibilities

Suitable container	<ul style="list-style-type: none"> • DO NOT use metallic containers • Check regularly for spills and leaks • 8B: Non-combustible, corrosive hazardous materials
Storage incompatibility	<ul style="list-style-type: none"> • Segregate from Heat and flame..



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- X — Must not be stored together
 0 — May be stored together with specific preventions
 + — May be stored together

SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 : Control parameters

Ingredients with workplace control parameters

8.2 : Exposure controls

Hand protection	Protective gloves
Eye protection	Chemical goggles or safety glasses
Skin and body protection	Wear suitable protective clothing
Respiratory protection	Wear respiratory protection.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Clear Alkaline liquid with a chlorine odor; mixes with water.

Physical state	Liquid	Viscosity, kinematic	No data available
Color	Transparent	Viscosity, dynamic	No data available
Odor	No data available	Explosive properties	No data available
pH (as supplied)	4.01 at 25 °C	Oxidising properties	None
Density	1.01 g/cm ³ at 25 °C	Explosive limits	No data available
Water Solubility	completely miscible	Melting / Freezing point	No data available
Auto-ignition temperature	No data available	Boiling point	100 °C at 1,013 hPa
Decomposition temperature	No data available	Flash point	Not applicable
Flammability	The product is not flammable.	Vapor pressure	No data available

SECTION 10 : STABILITY AND REACTIVITY

Reactivity	No data available
Chemical stability	The product is chemically stable under recommended storage conditions.
Possibility of hazardous reactions	Violent reactions possible with: The generally known reaction partners of water.
Conditions to avoid	no information available.

Incompatible materials	No data available
Hazardous decomposition products	In the event of fire: see section 5

SECTION 11 : TOXICOLOGICAL INFORMATION

Information on toxicological effects

Mixture

Acute toxicity

Oral: No data available
Inhalation: No data available
Dermal: No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

Mixture may produce an allergic reaction.

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

SECTION 12 : ECOLOGICAL INFORMATION

12.1 : Information on toxicological effects

Toxicity	No additional information available
Persistence and degradability	No additional information available
Bioaccumulative potential	No additional information available
Mobility in soil	No additional information available
Results of PBT and vPvB assessment	No additional information available
Other adverse effects	No additional information available

SECTION 13 : DISPOSAL CONSIDERATIONS

13.1 : Waste treatment methods

Product / Packaging Disposal	<ul style="list-style-type: none"> Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified Treat and neutralize at an approved treatment plant. <p>Return to supplier for reuse/ recycling if possible. Otherwise:</p> <ul style="list-style-type: none"> If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorized landfill.
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SECTION 14 TRANSPORT INFORMATION

14.1 :Labels Required

Marine Pollutant	No data available
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14.2 : Land transport (DOT), Air transport (ICAO-IATA / DGR), Sea transport (IMDG-Code / GGVSee).

Land Transport	Acidic, Mixture.
Air Transport	Acidic, Mixture.
Sea Transport	Acidic, Mixture.

SECTION 15 OTHER INFORMATION

Revision Date	--- --
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